

(FILE 'HOME' ENTERED AT 00:07:51 ON 16 DEC 2006)

FILE 'REGISTRY' ENTERED AT 00:08:04 ON 16 DEC 2006

L1 STRUCTURE UPLOADED
L2 227 S L1 SSS FUL

FILE 'CAPLUS, USPATFULL' ENTERED AT 00:08:50 ON 16 DEC 2006

L3 115 FILE CAPLUS
L4 16 FILE USPATFULL
TOTAL FOR ALL FILES
L5 131 S L2

FILE 'REGISTRY' ENTERED AT 00:13:05 ON 16 DEC 2006

L6 STRUCTURE UPLOADED
L7 156 S L6 SSS FUL

FILE 'CAPLUS, USPATFULL' ENTERED AT 00:13:31 ON 16 DEC 2006

L8 32 FILE CAPLUS
L9 13 FILE USPATFULL
TOTAL FOR ALL FILES
L10 45 S L7

FILE 'REGISTRY' ENTERED AT 00:20:32 ON 16 DEC 2006

L11 STRUCTURE UPLOADED
SAVE ALL TEMP L09767283/L

FILE 'REGISTRY' ENTERED AT 00:38:52 ON 16 DEC 2006

L12 STRUCTURE UPLOADED
L13 24 S L12 SSS FUL

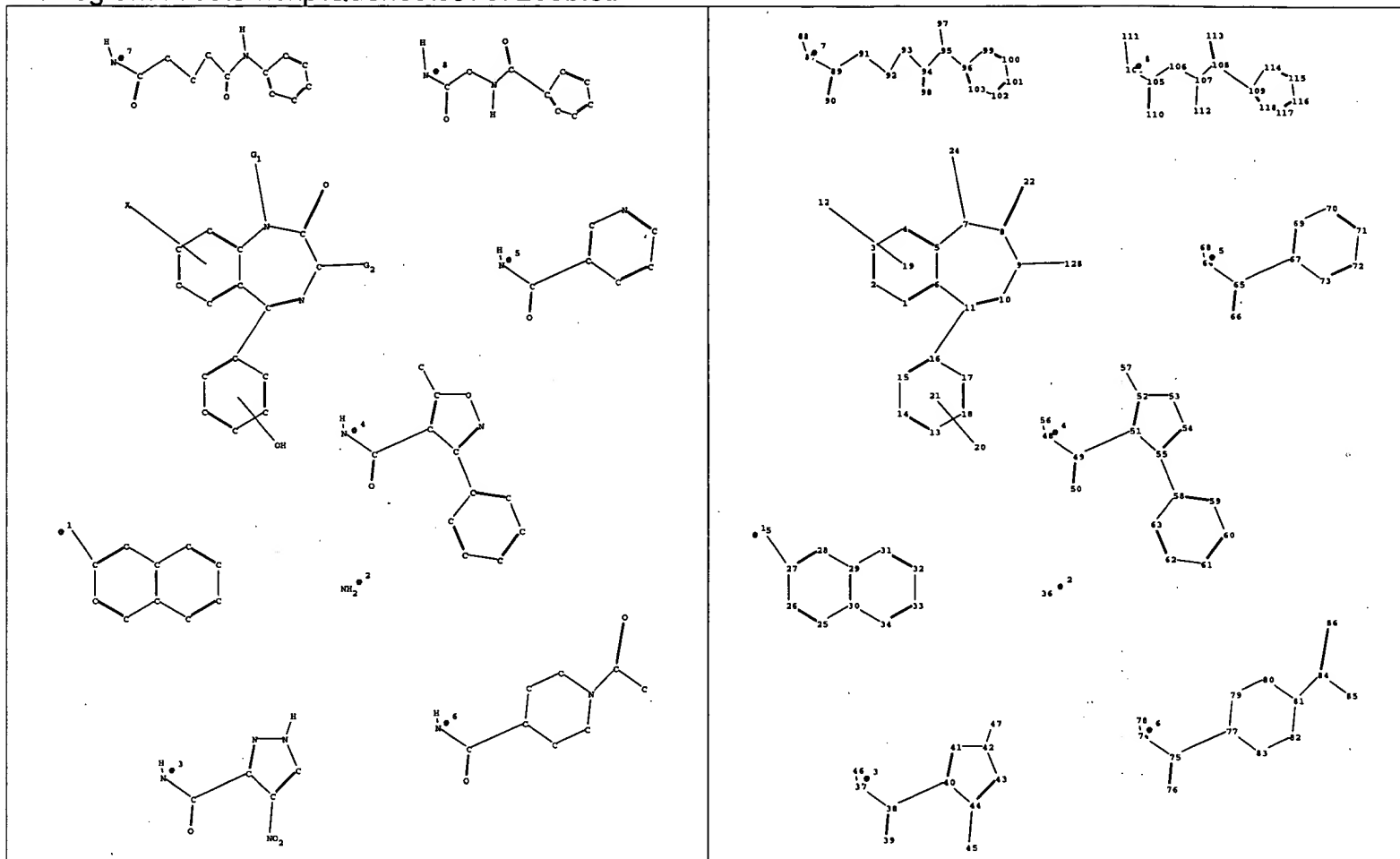
FILE 'CAPLUS, USPATFULL, TOXCENTER' ENTERED AT 00:40:40 ON 16 DEC 2006

L14 23 FILE CAPLUS
L15 10 FILE USPATFULL
L16 18 FILE TOXCENTER
TOTAL FOR ALL FILES
L17 51 S L13

FILE 'SYNTHLINE' ENTERED AT 00:44:33 ON 16 DEC 2006

L18 1 S L13
SAVE ALL L09767283/L

=>



chain nodes :

12 20 22 24 35 36 37 38 39 45 46 47 48 49 50 56 57 64 65 66 68 74 75 76 78 84
85 86 87 88 89 90 91 92 93 94 95 97 98 104 105 106 107 108 110 111 112 113 128

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 13 14 15 16 17 18 25 26 27 28 29 30 31 32 33 34 40 41
42 43 44 51 52 53 54 55 58 59 60 61 62 63 67 69 70 71 72 73 77 79 80 81 82 83
96 99 100 101 102 103 109 114 115 116 117 118

chain bonds :

7-24 8-22 9-128 11-16 27-35 37-38 37-46 38-39 38-40 42-47 44-45 48-49 48-56 49-50 49-51
52-57 55-58 64-65 64-68 65-66 65-67 74-75 74-78 75-76 75-77 81-84 84-85 84-86 87-88 87-89
89-90 89-91 91-92 92-93 93-94 94-95 94-98 95-96 95-97 104-105 104-111 105-106 105-110
106-107 107-108 107-112 108-109 108-113

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-11 7-8 8-9 9-10 10-11 13-14 13-18 14-15 15-16 16-17 17-18
25-26 25-30 26-27 27-28 28-29 29-30 29-31 30-34 31-32 32-33 33-34 40-41 40-44 41-42 42-43
43-44 51-52 51-55 52-53 53-54 54-55 58-59 58-63 59-60 60-61 61-62 62-63 67-69 67-73 69-70
70-71 71-72 72-73 77-79 77-83 79-80 80-81 81-82 82-83 96-99 96-103 99-100 100-101 101-102
102-103 109-114 109-118 114-115 115-116 116-117 117-118

exact/norm bonds :

5-7 6-11 7-8 7-24 8-9 8-22 9-10 9-128 10-11 37-38 38-39 40-41 40-44 41-42 42-43 43-44
48-49 49-50 51-52 51-55 52-53 53-54 54-55 64-65 65-66 74-75 75-76 77-79 77-83 79-80 80-81
81-82 81-84 82-83 84-86 87-89 89-90 94-95 94-98 95-96 104-105 105-110 106-107 107-108
108-113

exact bonds :

11-16 27-35 37-46 38-40 42-47 44-45 48-56 49-51 52-57 55-58 64-68 65-67 74-78 75-77 84-85
87-88 89-91 91-92 92-93 93-94 95-97 104-111 105-106 107-112 108-109

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 13-14 13-18 14-15 15-16 16-17 17-18 25-26 25-30 26-27 27-28 28-29
29-30 29-31 30-34 31-32 32-33 33-34 58-59 58-63 59-60 60-61 61-62 62-63 67-69 67-73 69-70
70-71 71-72 72-73 96-99 96-103 99-100 100-101 101-102 102-103 109-114 109-118 114-115 115-116
116-117 117-118

G1:Cb,Cy,Hy,Ak

G2:[*1],[*2],[*3],[*4],[*5],[*6],[*7],[*8]

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:CLASS
13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:CLASS21:Atom 22:CLASS24:CLASS
25:Atom 26:Atom 27:Atom 28:Atom 29:Atom 30:Atom 31:Atom 32:Atom 33:Atom 34:Atom 35:CLASS
36:CLASS37:CLASS38:CLASS39:CLASS40:Atom 41:Atom 42:Atom 43:Atom 44:Atom 45:CLASS46:CLASS
47:CLASS48:CLASS49:CLASS50:CLASS51:Atom 52:Atom 53:Atom 54:Atom 55:Atom 56:CLASS57:CLASS
58:Atom 59:Atom 60:Atom 61:Atom 62:Atom 63:Atom 64:CLASS65:CLASS66:CLASS67:Atom 68:CLASS
69:Atom 70:Atom 71:Atom 72:Atom 73:Atom 74:CLASS75:CLASS76:CLASS77:Atom 78:CLASS79:Atom
80:Atom 81:Atom 82:Atom 83:Atom 84:CLASS85:CLASS86:CLASS87:CLASS88:CLASS89:CLASS90:CLASS
91:CLASS92:CLASS93:CLASS94:CLASS95:CLASS96:Atom 97:CLASS98:CLASS99:Atom 100:Atom
101:Atom 102:Atom 103:Atom 104:CLASS105:CLASS106:CLASS107:CLASS108:CLASS109:Atom 110:CLASS
111:CLASS112:CLASS113:CLASS114:Atom 115:Atom 116:Atom 117:Atom 118:Atom 128:CLASS

wed using STN Express query preparation.

=> d his

(FILE 'HOME' ENTERED AT 00:07:51 ON 16 DEC 2006)

FILE 'REGISTRY' ENTERED AT 00:08:04 ON 16 DEC 2006

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L2 227 S L1 SSS FUL

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L7 156 S L6 SSS FUL

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L9 13 FILE USPATFULL

TOTAL FOR ALL FILES

L10 45 S L7

FILE 'REGISTRY' ENTERED AT 00:20:32 ON 16 DEC 2006

L11 STRUCTURE UPLOADED

=> save all temp

ENTER NAME OR (END):109767283/1

L# LIST L1-L11 HAS BEEN SAVED AS 'L09767283/L'

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<http://www.cas.org/ONLINE/UG/regprops.html>

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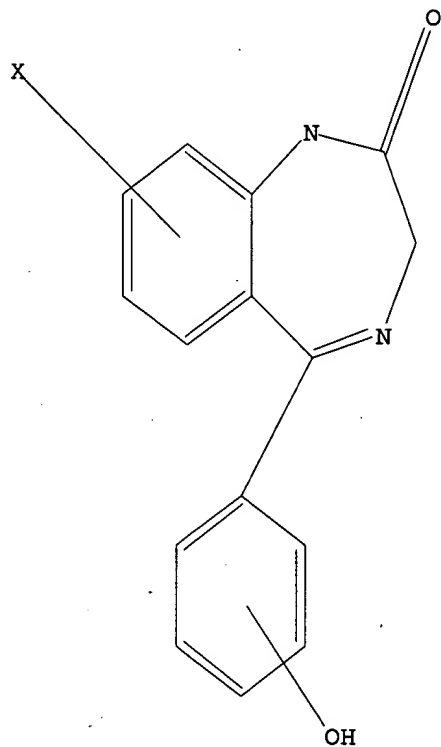
Uploading C:\Program Files\Stnexp\Queries\09767283.str

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss ful

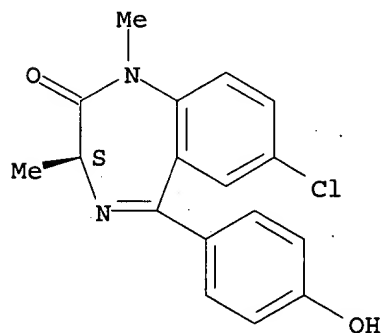
L10 ANSWER 30 OF 45 CAPLUS COPYRIGHT 2006 ACS on STN
IT 102526-94-3P 145434-34-0P 145434-35-1P
145434-36-2P 145434-37-3P 145434-38-4P
145434-39-5P 145434-40-8P 145448-49-3P 145448-50-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

ACCESSION NUMBER: 1993:59682 CAPLUS
DOCUMENT NUMBER: 118:59682
TITLE: A general and expedient method for the solid-phase
synthesis of 1,4-benzodiazepine derivatives
AUTHOR(S): Bunin, Barry A.; Ellman, Jonathan A.
CORPORATE SOURCE: Dep. Chem., Univ. California, Berkeley, CA, 94720, USA
SOURCE: Journal of the American Chemical Society (1992),
114(27), 10997-8
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: English

IT 145434-34-0P 145434-35-1P 145434-36-2P
145434-37-3P 145434-38-4P 145434-39-5P
145448-49-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

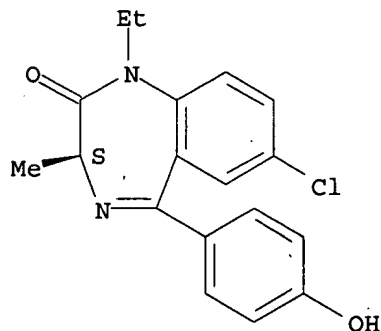
RN 145434-34-0 CAPLUS
CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1,3-
dimethyl-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 145434-35-1 CAPLUS
CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1-ethyl-1,3-dihydro-5-(4-
hydroxyphenyl)-3-methyl-, (S)- (9CI) (CA INDEX NAME)

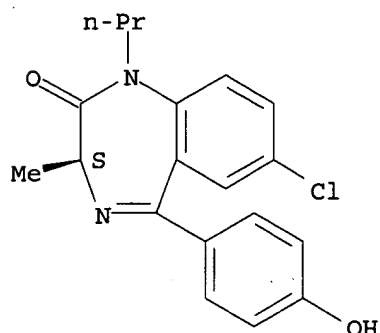
Absolute stereochemistry.



RN 145434-36-2 CAPLUS

CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-3-methyl-1-propyl-, (S)- (9CI) (CA INDEX NAME)

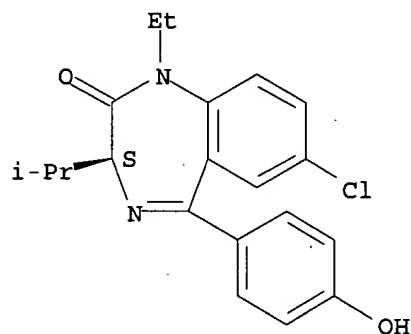
Absolute stereochemistry.



RN 145434-37-3 CAPLUS

CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1-ethyl-1,3-dihydro-5-(4-hydroxyphenyl)-3-(1-methylethyl)-, (S)- (9CI) (CA INDEX NAME)

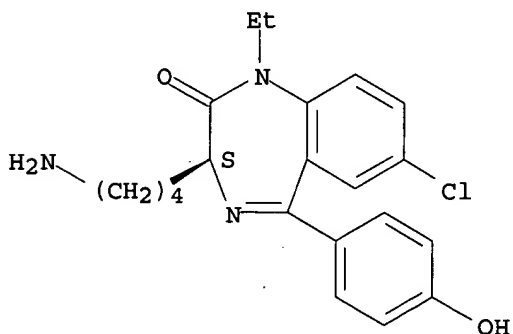
Absolute stereochemistry.



RN 145434-38-4 CAPLUS

CN 2H-1,4-Benzodiazepin-2-one, 3-(4-aminobutyl)-7-chloro-1-ethyl-1,3-dihydro-5-(4-hydroxyphenyl)-, (S)- (9CI) (CA INDEX NAME)

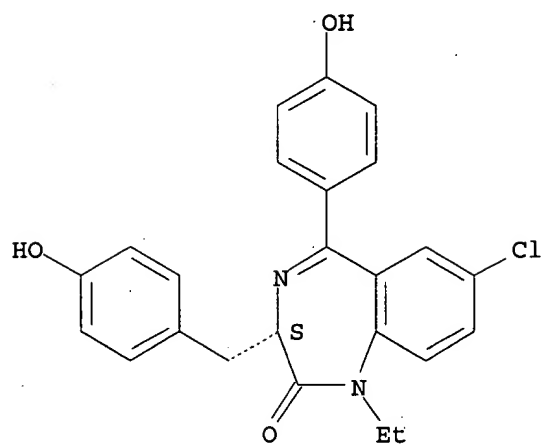
Absolute stereochemistry.



RN 145434-39-5 CAPLUS

CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1-ethyl-1,3-dihydro-5-(4-hydroxyphenyl)-3-[(4-hydroxyphenyl)methyl]-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L10 ANSWER 29 OF 45 CAPLUS COPYRIGHT 2006 ACS on STN

IT 12794-10-4P, Benzodiazepine 62492-75-5P, (S)-7-Chloro-1,3-dihydro-5-(4-hydroxyphenyl)-3-methyl-2H-1,4-benzodiazepin-2-one 145434-34-0P, (S)-7-Chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1,3-dimethyl-2H-1,4-benzodiazepin-2-one 145434-35-1P, (S)-7-Chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1-ethyl-3-methyl-(2H)-1,4-benzodiazepin-2-one 145434-37-3P, (S)-7-Chloro-1,3-dihydro-1-ethyl-5-(4-hydroxyphenyl)-3-isopropyl-2H-1,4-benzodiazepin-2-one 145434-38-4P, (S)-7-Chloro-1,3-dihydro-1-ethyl-5-(4-hydroxyphenyl)-3-(4-aminobutyl)-2H-1,4-benzodiazepin-2-one 145434-39-5P, (S)-7-Chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1-ethyl-3-(4-hydroxyphenylmethyl)-(2H)-1,4-benzodiazepin-2-one 145434-40-8P, (S)-8-Carboxy-7-chloro-1,3-dihydro-3-methyl-5-phenyl-1-phenylmethyl-(2H)-1,4-benzodiazepin-2-one 145448-49-3P, (S)-7-Chloro-1,3-dihydro-3-carboxymethyl-1-ethyl-5-(4-hydroxyphenyl)-2H-1,4-benzodiazepin-2-one 145448-50-6P, (S)-8-Carboxy-7-chloro-1,3-dihydro-1-methyl-5-phenyl-3-phenylmethyl-(2H)-1,4-benzodiazepin-2-one 155505-53-6P, (S)-1-Allyl-7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-3-methyl-(2H)-1,4-benzodiazepin-2-one 155505-54-7P, (S)-8-Carboxy-7-chloro-1,3-dihydro-1,3-dimethyl-5-phenyl-(2H)-1,4-benzodiazepin-2-one 155505-58-1P 155505-60-5P, 7-Chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1,3-dimethyl-2H-1,4-benzodiazepin-2-one 155505-61-6P, 7-Chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1-ethyl-3-methyl-(2H)-1,4-benzodiazepin-2-one 155505-62-7P, 1-Allyl-7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-3-methyl-(2H)-1,4-benzodiazepin-2-one 155505-63-8P, 7-Chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1-ethyl-3-(4-hydroxyphenylmethyl)-(2H)-1,4-benzodiazepin-2-one 155505-64-9P, 8-Carboxy-7-chloro-1,3-dihydro-1,3-dimethyl-5-phenyl-(2H)-1,4-benzodiazepin-2-one 155505-65-0P, 7-Chloro-1,3-dihydro-1-ethyl-5-(4-hydroxyphenyl)-3-isopropyl-2H-1,4-benzodiazepin-2-one 155505-66-1P, 7-Chloro-1,3-dihydro-3-carboxymethyl-1-ethyl-5-(4-hydroxyphenyl)-2H-1,4-benzodiazepin-2-one 155505-67-2P, 8-Carboxy-7-chloro-1,3-dihydro-1-methyl-5-phenyl-3-phenylmethyl-(2H)-1,4-benzodiazepin-2-one 155505-68-3P, 8-Carboxy-7-chloro-1,3-dihydro-3-methyl-5-phenyl-1-phenylmethyl-(2H)-1,4-benzodiazepin-2-one 155505-69-4P, 7-Chloro-1,3-dihydro-1-ethyl-5-(4-hydroxyphenyl)-3-(4-aminobutyl)-2H-1,4-benzodiazepin-2-one

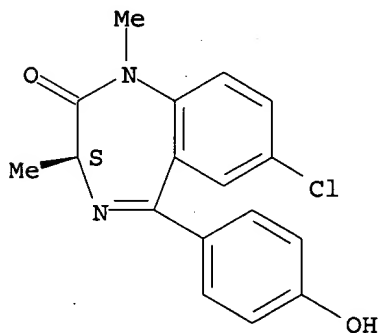
RL: SPN (Synthetic preparation); PREP (Preparation)
(solid-phase and combinatorial preparation of)

ACCESSION NUMBER: 1994:409430 CAPLUS
DOCUMENT NUMBER: 121:9430
TITLE: Solid phase and combinatorial synthesis of benzodiazepine compounds on a solid support
INVENTOR(S): Ellman, Jonathan A.
PATENT ASSIGNEE(S): Regents of the University of California, USA
SOURCE: U.S., 25 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5288514	A	19940222	US 1992-944469	19920914
WO 9406291	A1	19940331	WO 1993-US8709	19930913
W:	AT, AU, BB, BG, BR, BY, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, LV, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, VN			
RW:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
AU 9349231	A1	19940412	AU 1993-49231	19930913
US 5545568	A	19960813	US 1993-161677	19931202
PRIORITY APPLN. INFO.:			US 1992-944469	A2 19920914

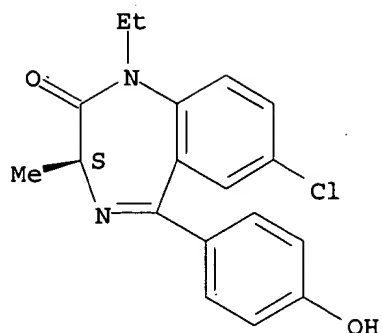
IT 145434-34-0P, (S)-7-Chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1,3-dimethyl-2H-1,4-benzodiazepin-2-one 145434-35-1P, (S)-7-Chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1-ethyl-3-methyl-(2H)-1,4-benzodiazepin-2-one 145434-37-3P, (S)-7-Chloro-1,3-dihydro-1-ethyl-5-(4-hydroxyphenyl)-3-isopropyl-2H-1,4-benzodiazepin-2-one 145434-38-4P, (S)-7-Chloro-1,3-dihydro-1-ethyl-5-(4-hydroxyphenyl)-3-(4-aminobutyl)-2H-1,4-benzodiazepin-2-one 145434-39-5P, (S)-7-Chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1-ethyl-3-(4-hydroxyphenylmethyl)-(2H)-1,4-benzodiazepin-2-one 145448-49-3P, (S)-7-Chloro-1,3-dihydro-3-carboxymethyl-1-ethyl-5-(4-hydroxyphenyl)-2H-1,4-benzodiazepin-2-one 155505-53-6P, (S)-1-Allyl-7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-3-methyl-(2H)-1,4-benzodiazepin-2-one 155505-58-1P 155505-60-5P, 7-Chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1,3-dimethyl-2H-1,4-benzodiazepin-2-one 155505-61-6P, 7-Chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1-ethyl-3-methyl-(2H)-1,4-benzodiazepin-2-one 155505-62-7P, 1-Allyl-7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-3-methyl-(2H)-1,4-benzodiazepin-2-one 155505-63-8P, 7-Chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1-ethyl-3-(4-hydroxyphenylmethyl)-(2H)-1,4-benzodiazepin-2-one 155505-65-0P, 7-Chloro-1,3-dihydro-1-ethyl-5-(4-hydroxyphenyl)-3-isopropyl-2H-1,4-benzodiazepin-2-one 155505-66-1P, 7-Chloro-1,3-dihydro-3-carboxymethyl-1-ethyl-5-(4-hydroxyphenyl)-2H-1,4-benzodiazepin-2-one 155505-69-4P, 7-Chloro-1,3-dihydro-1-ethyl-5-(4-hydroxyphenyl)-3-(4-aminobutyl)-2H-1,4-benzodiazepin-2-one
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (solid-phase and combinatorial preparation of)
 RN 145434-34-0 CAPLUS
 CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1,3-dimethyl-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 145434-35-1 CAPLUS
 CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1-ethyl-1,3-dihydro-5-(4-hydroxyphenyl)-3-methyl-, (S)- (9CI) (CA INDEX NAME)

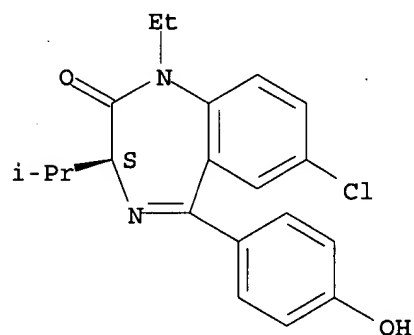
Absolute stereochemistry.



RN 145434-37-3 CAPLUS

CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1-ethyl-1,3-dihydro-5-(4-hydroxyphenyl)-3-(1-methylethyl)-, (S)- (9CI) (CA INDEX NAME)

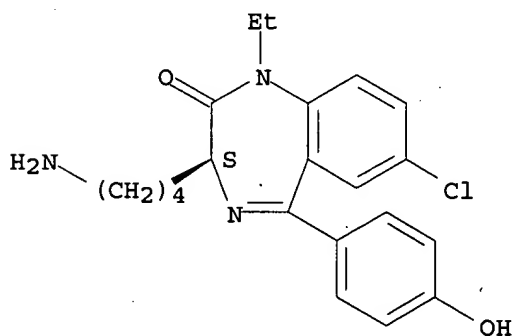
Absolute stereochemistry.



RN 145434-38-4 CAPLUS

CN 2H-1,4-Benzodiazepin-2-one, 3-(4-aminobutyl)-7-chloro-1-ethyl-1,3-dihydro-5-(4-hydroxyphenyl)-, (S)- (9CI) (CA INDEX NAME)

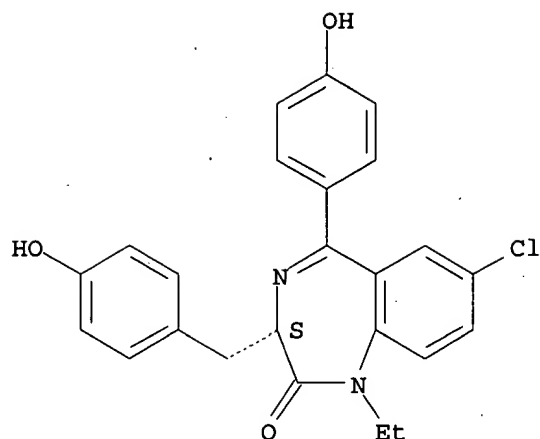
Absolute stereochemistry.



RN 145434-39-5 CAPLUS

CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1-ethyl-1,3-dihydro-5-(4-hydroxyphenyl)-3-[(4-hydroxyphenyl)methyl]-, (S)- (9CI) (CA INDEX NAME)

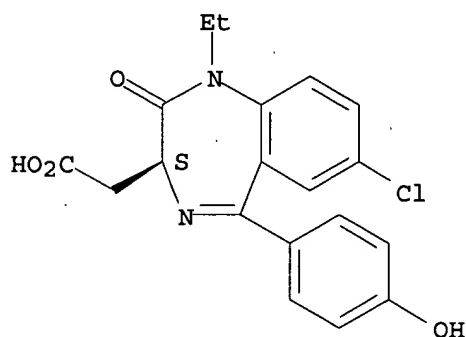
Absolute stereochemistry.



RN 145448-49-3 CAPLUS

CN 1H-1,4-Benzodiazepine-3-acetic acid, 7-chloro-1-ethyl-2,3-dihydro-5-(4-hydroxyphenyl)-2-oxo-, (S)- (9CI) (CA INDEX NAME)

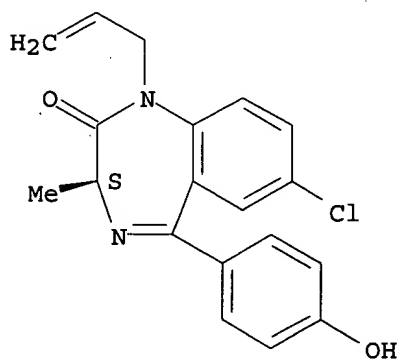
Absolute stereochemistry.



RN 155505-53-6 CAPLUS

CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-3-methyl-1-(2-propenyl)-, (S)- (9CI) (CA INDEX NAME)

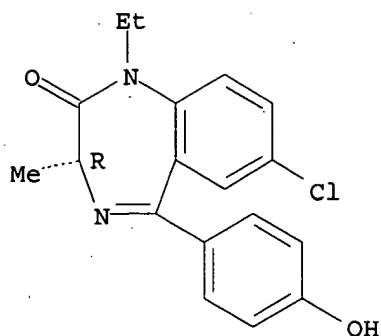
Absolute stereochemistry.



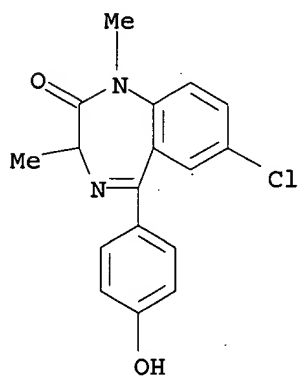
RN 155505-58-1 CAPLUS

CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1-ethyl-1,3-dihydro-5-(4-hydroxyphenyl)-3-methyl-, (R)- (9CI) (CA INDEX NAME)

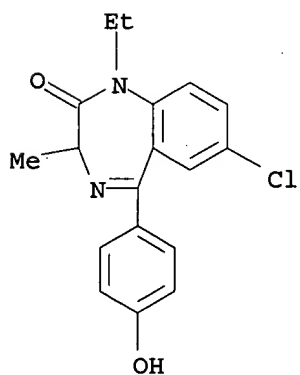
Absolute stereochemistry.



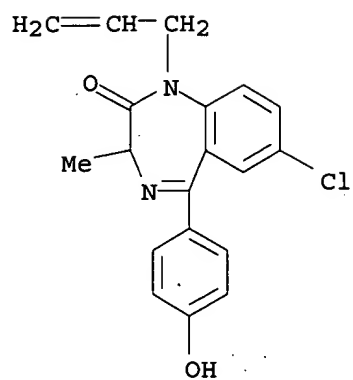
RN 155505-60-5 CAPLUS
 CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1,3-dimethyl- (9CI) (CA INDEX NAME)



RN 155505-61-6 CAPLUS
 CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1-ethyl-1,3-dihydro-5-(4-hydroxyphenyl)-3-methyl- (9CI) (CA INDEX NAME)

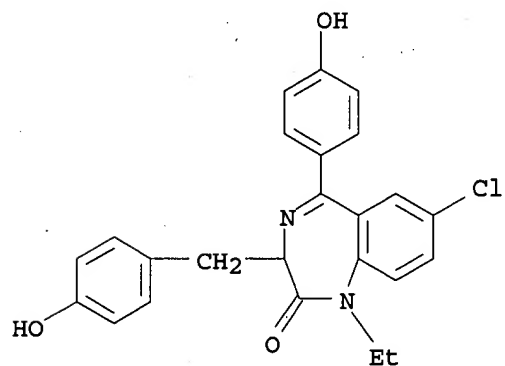


RN 155505-62-7 CAPLUS
 CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-3-methyl-1-(2-propenyl)- (9CI) (CA INDEX NAME)



RN 155505-63-8 CAPLUS

CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1-ethyl-1,3-dihydro-5-(4-hydroxyphenyl)-3-[(4-hydroxyphenyl)methyl]- (9CI) (CA INDEX NAME)



RN 155505-65-0 CAPLUS

CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1-ethyl-1,3-dihydro-5-(4-hydroxyphenyl)-3-(1-methylethyl)- (9CI) (CA INDEX NAME)

L10 ANSWER 28 OF 45 CAPLUS COPYRIGHT 2006 ACS on STN
 IT 17270-12-1P 17311-35-2P 62492-75-5P 102526-94-3P 103342-83-2P
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 156847-70-0P 156884-82-1P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and cholecystokinin receptor binding activity of, structure in
 relation to)

ACCESSION NUMBER: 1995:16748 CAPLUS
 DOCUMENT NUMBER: 122:71334
 TITLE: The combinatorial synthesis and chemical and
 biological evaluation of a 1,4-benzodiazepine library
 AUTHOR(S): Bunin, Barry A.; Plunkett, Matthew J.; Ellman,
 Jonathan A.
 CORPORATE SOURCE: Dep. Chem., Univ. California, Berkeley, CA, 94720, USA
 SOURCE: Proceedings of the National Academy of Sciences of the
 United States of America (1994), 91(11), 4708-12
 CODEN: PNASA6; ISSN: 0027-8424

DOCUMENT TYPE:

Journal

LANGUAGE:

English

IT 145434-34-0P 145434-35-1P 145434-36-2P
145434-37-3P 145434-38-4P 145448-49-3P
155505-58-1P 156814-70-9P 156814-71-0P
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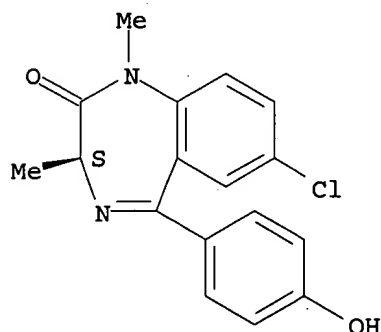
RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation and cholecystokinin receptor binding activity of, structure in relation to)

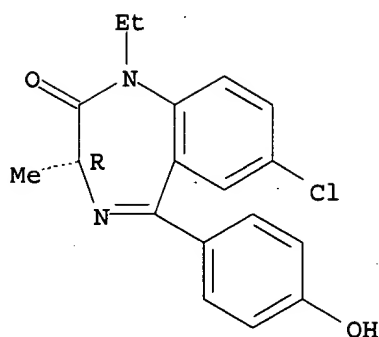
RN 145434-34-0 CAPLUS

CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1,3-dimethyl-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



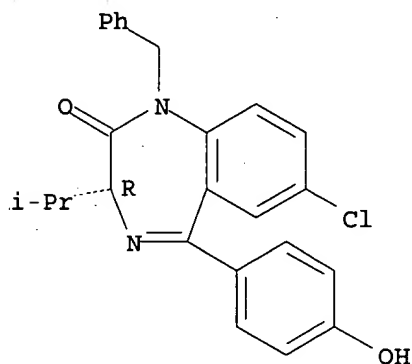
Absolute stereochemistry.



RN 156814-70-9 CAPLUS

CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-3-(1-methylethyl)-1-(phenylmethyl)-, (R)- (9CI) (CA INDEX NAME)

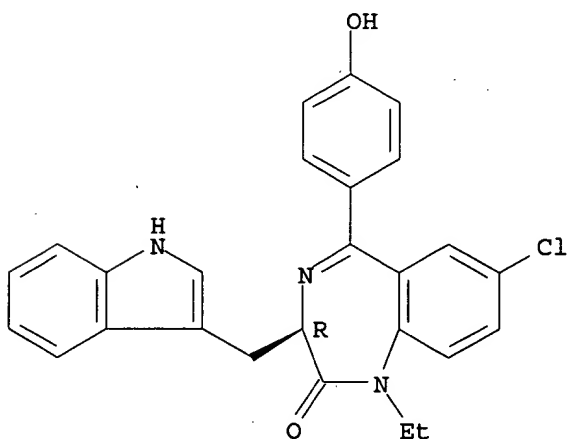
Absolute stereochemistry.



RN 156814-71-0 CAPLUS

CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1-ethyl-1,3-dihydro-5-(4-hydroxyphenyl)-3-(1H-indol-3-ylmethyl)-, (R)- (9CI) (CA INDEX NAME)

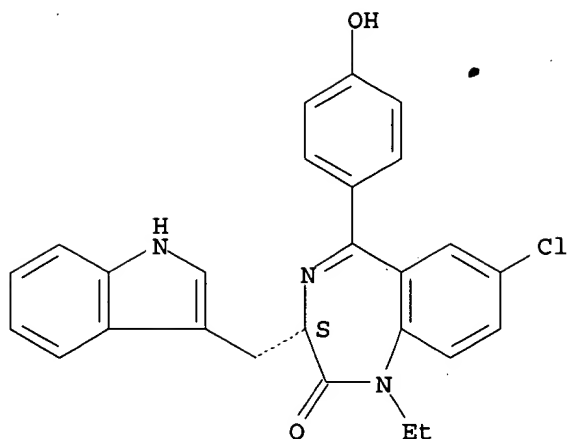
Absolute stereochemistry.



RN 156814-72-1 CAPLUS

CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1-ethyl-1,3-dihydro-5-(4-hydroxyphenyl)-3-(1H-indol-3-ylmethyl)-, (S)- (9CI) (CA INDEX NAME)

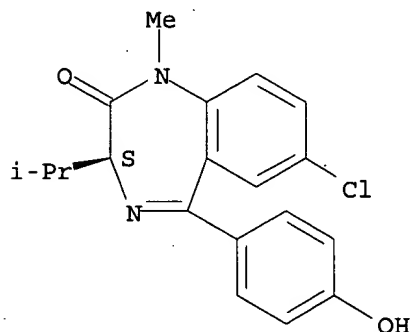
Absolute stereochemistry.



RN 156814-84-5 CAPLUS

CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1-methyl-3-(1-methylethyl)-, (S)- (9CI) (CA INDEX NAME)

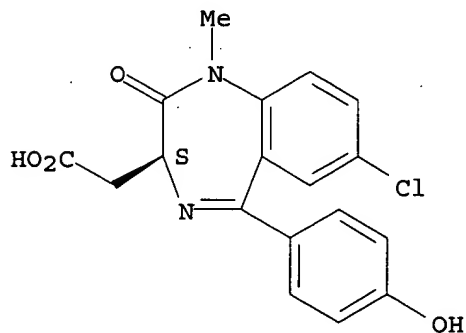
Absolute stereochemistry.



RN 156814-85-6 CAPLUS

CN 1H-1,4-Benzodiazepine-3-acetic acid, 7-chloro-2,3-dihydro-5-(4-hydroxyphenyl)-1-methyl-2-oxo-, (S)- (9CI) (CA INDEX NAME)

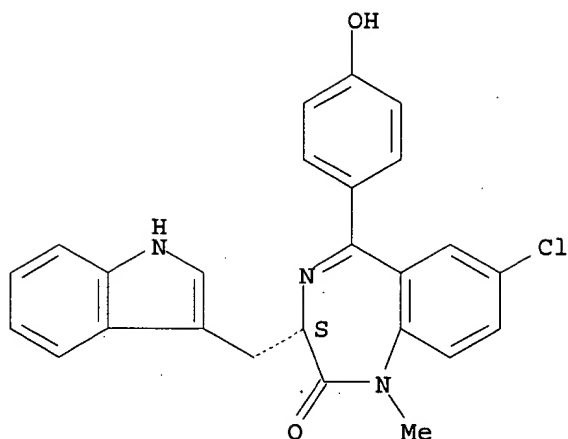
Absolute stereochemistry.



RN 156814-86-7 CAPLUS

CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-3-(1H-indol-3-ylmethyl)-1-methyl-, (S)- (9CI) (CA INDEX NAME)

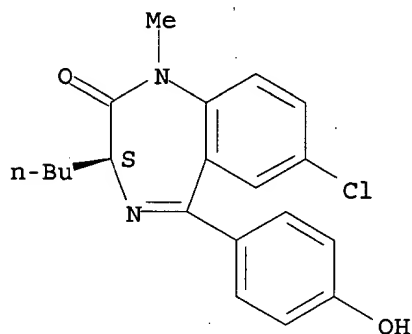
Absolute stereochemistry.



RN 156814-87-8 CAPLUS

CN 2H-1,4-Benzodiazepin-2-one, 3-butyl-7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1-methyl-, (S)- (9CI) (CA INDEX NAME)

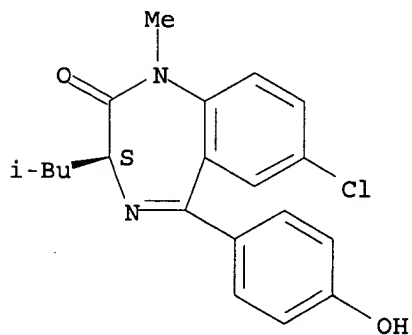
Absolute stereochemistry.



RN 156814-88-9 CAPLUS

CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1-methyl-3-(2-methylpropyl)-, (S)- (9CI) (CA INDEX NAME)

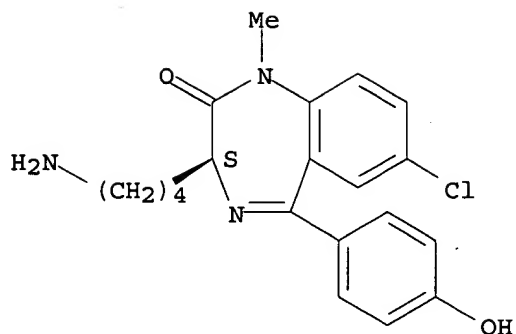
Absolute stereochemistry.



RN 156814-89-0 CAPLUS

CN 2H-1,4-Benzodiazepin-2-one, 3-(4-aminobutyl)-7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1-methyl-, (S)- (9CI) (CA INDEX NAME)

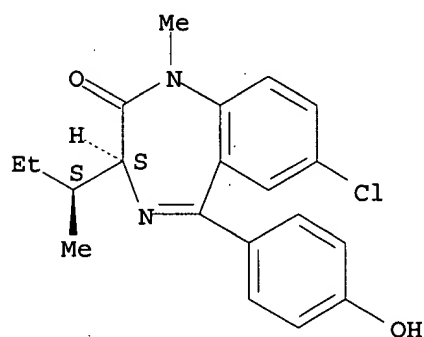
Absolute stereochemistry.



RN 156814-90-3 CAPLUS

CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1-methyl-3-(1-methylpropyl)-, [S-(R*,R*)]- (9CI) (CA INDEX NAME)

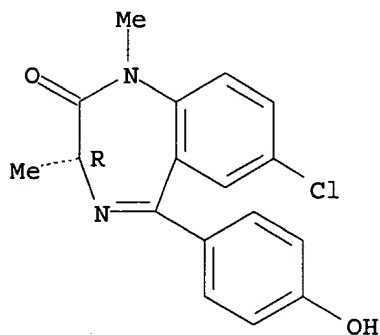
Absolute stereochemistry.



RN 156814-91-4 CAPLUS

CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1,3-dimethyl-, (R)- (9CI) (CA INDEX NAME)

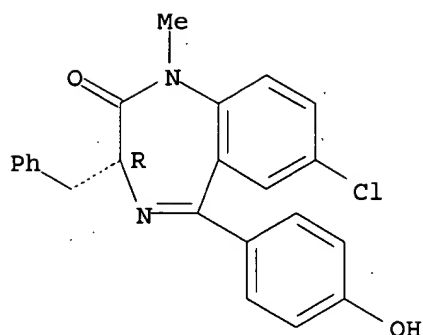
Absolute stereochemistry.



RN 156814-92-5 CAPLUS

CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1-methyl-3-(phenylmethyl)-, (R)- (9CI) (CA INDEX NAME)

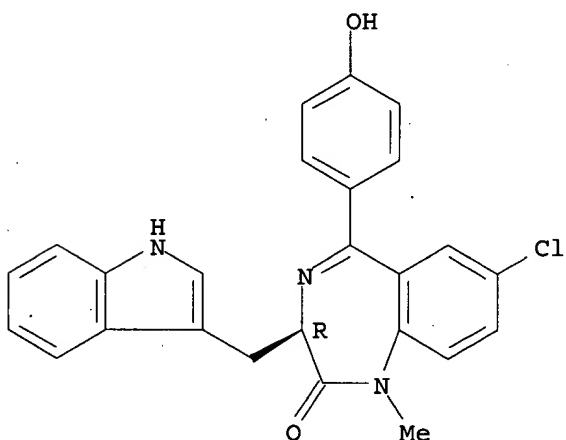
Absolute stereochemistry.



RN 156814-93-6 CAPLUS

CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-3-(1H-indol-3-ylmethyl)-1-methyl-, (R)- (9CI) (CA INDEX NAME)

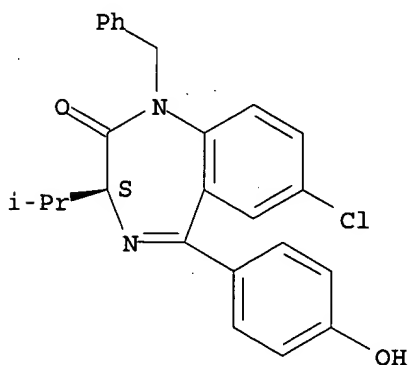
Absolute stereochemistry.



RN 156814-94-7 CAPLUS

CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-3-(1-methylethyl)-1-(phenylmethyl)-, (S)- (9CI) (CA INDEX NAME)

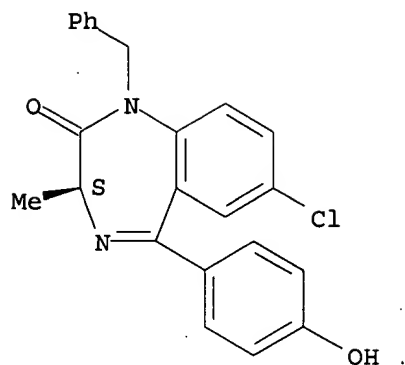
Absolute stereochemistry.



RN 156814-95-8 CAPLUS

CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-3-methyl-1-(phenylmethyl)-, (S)- (9CI) (CA INDEX NAME)

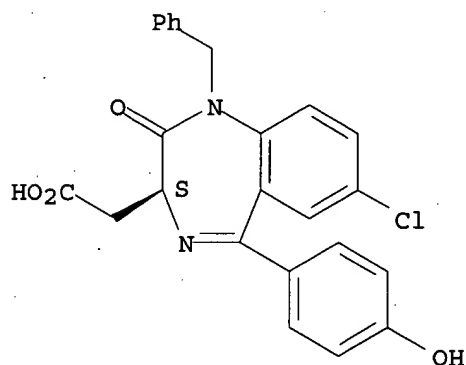
Absolute stereochemistry.



RN 156814-96-9 CAPLUS

CN 1H-1,4-Benzodiazepine-3-acetic acid, 7-chloro-2,3-dihydro-5-(4-hydroxyphenyl)-2-oxo-1-(phenylmethyl)-, (S)- (9CI) (CA INDEX NAME)

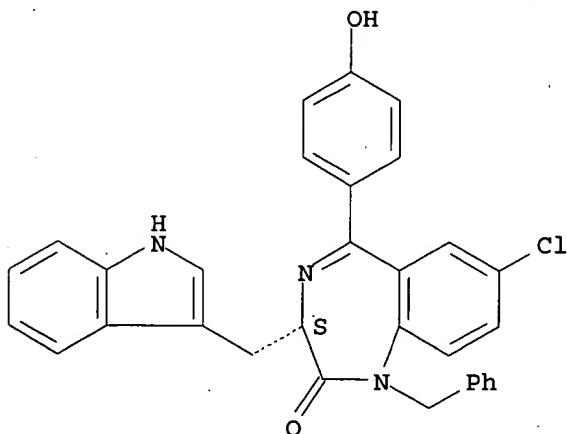
Absolute stereochemistry.



RN 156814-97-0 CAPLUS

CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-3-(1H-indol-3-ylmethyl)-1-(phenylmethyl)-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 156814-98-1 CA

L10 ANSWER 27 OF 45 CAPLUS COPYRIGHT 2006 ACS on STN
IT 62492-75-5P 145434-35-1P 181370-78-5P 181370-79-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(solid phase and combinatorial synthesis of benzodiazepines on a solid support)

ACCESSION NUMBER: 1996:524350 CAPLUS
DOCUMENT NUMBER: 125:221883
TITLE: Solid phase and combinatorial synthesis of benzodiazepines on a solid support
INVENTOR(S): Ellman, Jonathan A.
PATENT ASSIGNEE(S): The Regents of the University of California, USA
SOURCE: U.S., 43 pp., Cont.-in-part of U.S. 5,288,514.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

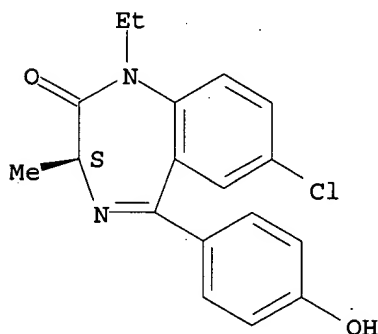
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5545568	A	19960813	US 1993-161677	19931202
US 5288514	A	19940222	US 1992-944469	19920914
PRIORITY APPLN. INFO.:			US 1992-944469	A2 19920914

IT 145434-35-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(solid phase and combinatorial synthesis of benzodiazepines on a solid support)

RN 145434-35-1 CAPLUS

CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1-ethyl-1,3-dihydro-5-(4-hydroxyphenyl)-3-methyl-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L10 ANSWER 26 OF 45 CAPLUS COPYRIGHT 2006 ACS on STN

IT 264-64-2D, 1,4-Benzodiazepine, derivs. 184099-26-1
184099-27-2 184099-28-3

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(non-nucleic acid inhibitors of protein-DNA interactions identified through combinatorial chemical using benzodiazepines that block anti-single stranded DNA monoclonal antibody isolated from lupus-prone mouse in relation to structure)

ACCESSION NUMBER: 1996:616756 CAPLUS

DOCUMENT NUMBER: 126:1106

TITLE: Non Nucleic Acid Inhibitors of Protein-DNA Interactions Identified through Combinatorial Chemistry

AUTHOR(S): Stevens, Shawn Y.; Bunin, Barry A.; Plunkett, Matthew J.; Swanson, Patrick C.; Ellman, Jonathan A.; Glick, Gary D.

CORPORATE SOURCE: Department of Chemistry, University of Michigan, Ann Arbor, MI, 48109-1055, USA

SOURCE: Journal of the American Chemical Society (1996), 118(43), 10650-10651

CODEN: JACSAT; ISSN: 0002-7863

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

IT 184099-26-1 184099-27-2 184099-28-3

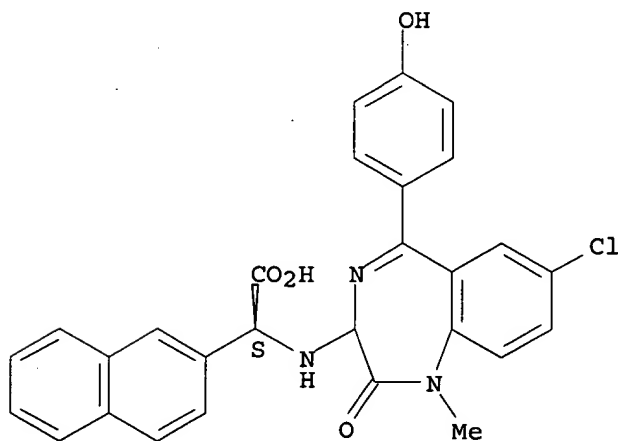
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(non-nucleic acid inhibitors of protein-DNA interactions identified through combinatorial chemical using benzodiazepines that block anti-single stranded DNA monoclonal antibody isolated from lupus-prone mouse in relation to structure)

RN 184099-26-1 CAPLUS

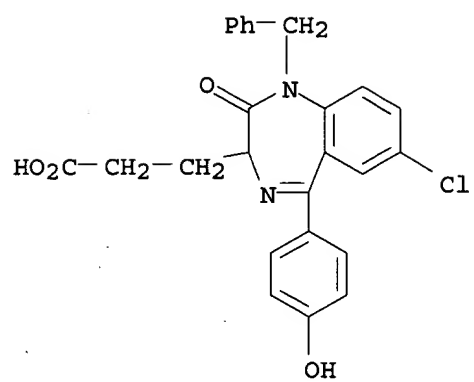
CN 2-Naphthaleneacetic acid, α -[[7-chloro-2,3-dihydro-5-(4-hydroxyphenyl)-1-methyl-2-oxo-1H-1,4-benzodiazepin-3-yl]amino]-, [3(S)]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 184099-27-2 CAPLUS

CN 1H-1,4-Benzodiazepine-3-propanoic acid, 7-chloro-2,3-dihydro-5-(4-hydroxyphenyl)-2-oxo-1-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 184099-28-3 CAPLUS
 CN 1H-1,4-Benzodiazepine-3-propanoi

L9 ANSWER 13 OF 13 USPATFULL on STN

IT 12794-10-4P, Benzodiazepine 62492-75-5P, (S)-7-Chloro-1,3-dihydro-5-(4-hydroxyphenyl)-3-methyl-2H-1,4-benzodiazepin-2-one 145434-34-0P, (S)-7-Chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1,3-dimethyl-2H-1,4-benzodiazepin-2-one 145434-35-1P, (S)-7-Chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1-ethyl-3-methyl-(2H)-1,4-benzodiazepin-2-one 145434-37-3P, (S)-7-Chloro-1,3-dihydro-1-ethyl-5-(4-hydroxyphenyl)-3-isopropyl-2H-1,4-benzodiazepin-2-one 145434-38-4P, (S)-7-Chloro-1,3-dihydro-1-ethyl-5-(4-hydroxyphenyl)-3-(4-aminobutyl)-2H-1,4-benzodiazepin-2-one 145434-39-5P, (S)-7-Chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1-ethyl-3-(4-hydroxyphenylmethyl)-(2H)-1,4-benzodiazepin-2-one 145434-40-8P, (S)-8-Carboxy-7-chloro-1,3-dihydro-3-methyl-5-phenyl-1-phenylmethyl-(2H)-1,4-benzodiazepin-2-one 145448-49-3P, (S)-7-Chloro-1,3-dihydro-3-carboxymethyl-1-ethyl-5-(4-hydroxyphenyl)-2H-1,4-benzodiazepin-2-one 145448-50-6P, (S)-8-Carboxy-7-chloro-1,3-dihydro-1-methyl-5-phenyl-3-phenylmethyl-(2H)-1,4-benzodiazepin-2-one 155505-53-6P, (S)-1-Allyl-7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-3-methyl-(2H)-1,4-benzodiazepin-2-one 155505-54-7P, (S)-8-Carboxy-7-chloro-1,3-dihydro-1,3-dimethyl-5-phenyl-(2H)-1,4-benzodiazepin-2-one 155505-58-1P 155505-60-5P, 7-Chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1,3-dimethyl-2H-1,4-benzodiazepin-2-one 155505-61-6P, 7-Chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1-ethyl-3-methyl-(2H)-1,4-benzodiazepin-2-one 155505-62-7P, 1-Allyl-7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-3-methyl-(2H)-1,4-benzodiazepin-2-one 155505-63-8P, 7-Chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1-ethyl-3-(4-hydroxyphenylmethyl)-(2H)-1,4-benzodiazepin-2-one 155505-64-9P, 8-Carboxy-7-chloro-1,3-dihydro-1,3-dimethyl-5-phenyl-(2H)-1,4-benzodiazepin-2-one 155505-65-0P, 7-Chloro-1,3-dihydro-1-ethyl-5-(4-hydroxyphenyl)-3-isopropyl-2H-1,4-benzodiazepin-2-one 155505-66-1P, 7-Chloro-1,3-dihydro-3-carboxymethyl-1-ethyl-5-(4-hydroxyphenyl)-2H-1,4-benzodiazepin-2-one 155505-67-2P, 8-Carboxy-7-chloro-1,3-dihydro-1-methyl-5-phenyl-3-phenylmethyl-(2H)-1,4-benzodiazepin-2-one 155505-68-3P, 8-Carboxy-7-chloro-1,3-dihydro-3-methyl-5-phenyl-1-phenylmethyl-(2H)-1,4-benzodiazepin-2-one 155505-69-4P, 7-Chloro-1,3-dihydro-1-ethyl-5-(4-hydroxyphenyl)-3-(4-aminobutyl)-2H-1,4-benzodiazepin-2-one

(solid-phase and combinatorial preparation of)

ACCESSION NUMBER: 94:15540 USPATFULL
TITLE: Solid phase and combinatorial synthesis of benzodiazepine compounds on a solid support
INVENTOR(S): Ellman, Jonathan A., Berkeley, CA, United States
PATENT ASSIGNEE(S): The Regents of the University of California, Oakland, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5288514		19940222
APPLICATION INFO.:	US 1992-944469		19920914 (7)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Pal, Asok		
ASSISTANT EXAMINER:	Achutamurthy, P.		
LEGAL REPRESENTATIVE:	Townsend and Townsend Kourie and Crew		
NUMBER OF CLAIMS:	18		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	4 Drawing Figure(s); 4 Drawing Page(s)		
LINE COUNT:	1514		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

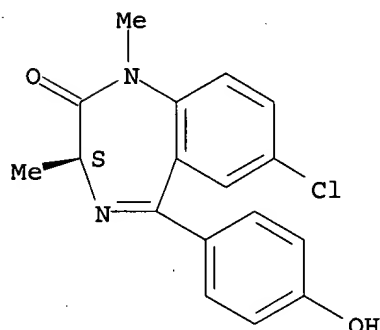
IT 145434-34-0P, (S)-7-Chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1,3-dimethyl-2H-1,4-benzodiazepin-2-one 145434-35-1P, (S)-7-Chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1-ethyl-3-methyl-(2H)-1,4-benzodiazepin-2-one 145434-37-3P, (S)-7-Chloro-1,3-dihydro-1-

ethyl-5-(4-hydroxyphenyl)-3-isopropyl-2H-1,4-benzodiazepin-2-one
145434-38-4P, (S)-7-Chloro-1,3-dihydro-1-ethyl-5-(4-hydroxyphenyl)-3-(4-aminobutyl)-2H-1,4-benzodiazepin-2-one
145434-39-5P, (S)-7-Chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1-ethyl-3-(4-hydroxyphenylmethyl)-(2H)-1,4-benzodiazepin-2-one
145448-49-3P, (S)-7-Chloro-1,3-dihydro-3-carboxymethyl-1-ethyl-5-(4-hydroxyphenyl)-2H-1,4-benzodiazepin-2-one **155505-53-6P**,
 (S)-1-Allyl-7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-3-methyl-(2H)-1,4-benzodiazepin-2-one **155505-58-1P** **155505-60-5P**,
 7-Chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1,3-dimethyl-2H-1,4-benzodiazepin-2-one **155505-61-6P**, 7-Chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1-ethyl-3-methyl-(2H)-1,4-benzodiazepin-2-one
155505-62-7P, 1-Allyl-7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-3-methyl-(2H)-1,4-benzodiazepin-2-one **155505-63-8P**,
 7-Chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1-ethyl-3-(4-hydroxyphenylmethyl)-(2H)-1,4-benzodiazepin-2-one **155505-65-0P**,
 7-Chloro-1,3-dihydro-1-ethyl-5-(4-hydroxyphenyl)-3-isopropyl-2H-1,4-benzodiazepin-2-one **155505-66-1P**, 7-Chloro-1,3-dihydro-3-carboxymethyl-1-ethyl-5-(4-hydroxyphenyl)-2H-1,4-benzodiazepin-2-one
155505-69-4P, 7-Chloro-1,3-dihydro-1-ethyl-5-(4-hydroxyphenyl)-3-(4-aminobutyl)-2H-1,4-benzodiazepin-2-one
 (solid-phase and combinatorial preparation of)

RN 145434-34-0 USPATFULL

CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1,3-dimethyl-, (S)- (9CI) (CA INDEX NAME)

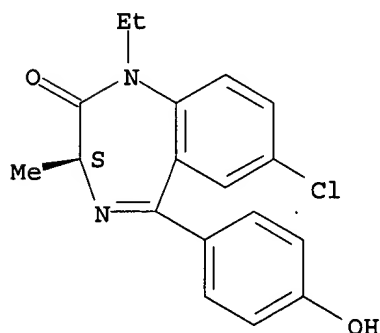
Absolute stereochemistry.



RN 145434-35-1 USPATFULL

CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1-ethyl-1,3-dihydro-5-(4-hydroxyphenyl)-3-methyl-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

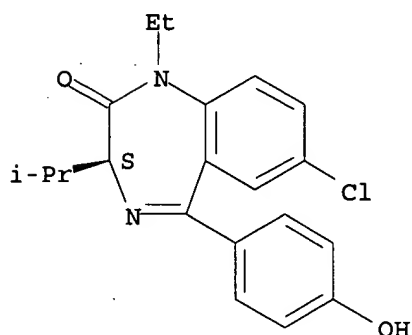


RN 145434-37-3 USPATFULL

CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1-ethyl-1,3-dihydro-5-(4-

hydroxyphenyl)-3-(1-methylethyl)-, (S)- (9CI) (CA INDEX NAME)

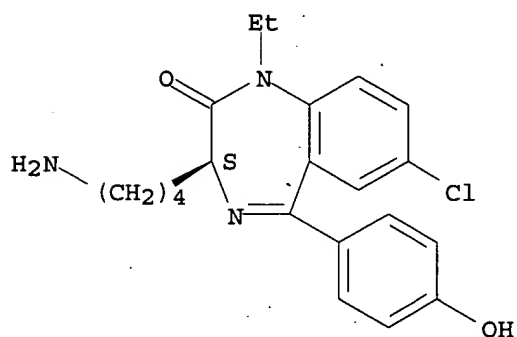
Absolute stereochemistry.



RN 145434-38-4 USPATFULL

CN 2H-1,4-Benzodiazepin-2-one, 3-(4-aminobutyl)-7-chloro-1-ethyl-1,3-dihydro-5-(4-hydroxyphenyl)-, (S)- (9CI) (CA INDEX NAME)

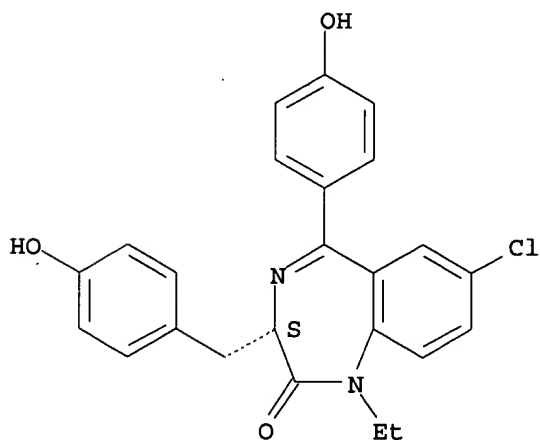
Absolute stereochemistry.



RN 145434-39-5 USPATFULL

CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1-ethyl-1,3-dihydro-5-(4-hydroxyphenyl)-3-[(4-hydroxyphenyl)methyl]-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

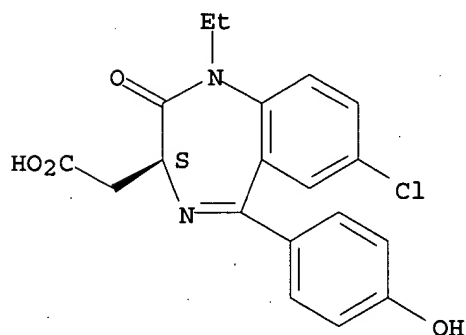


RN 145448-49-3 USPATFULL

CN 1H-1,4-Benzodiazepine-3-acetic acid, 7-chloro-1-ethyl-2,3-dihydro-5-(4-

hydroxyphenyl)-2-oxo-, (S)- (9CI) (CA INDEX NAME)

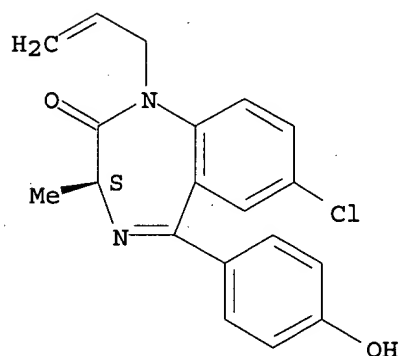
Absolute stereochemistry.



RN 155505-53-6 USPATFULL

CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-3-methyl-1-(2-propenyl)-, (S)- (9CI) (CA INDEX NAME)

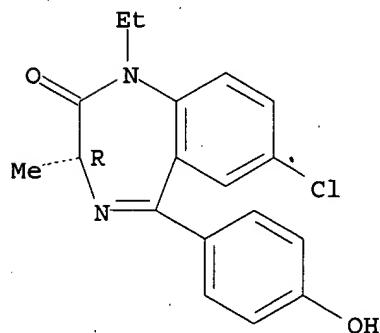
Absolute stereochemistry.



RN 155505-58-1 USPATFULL

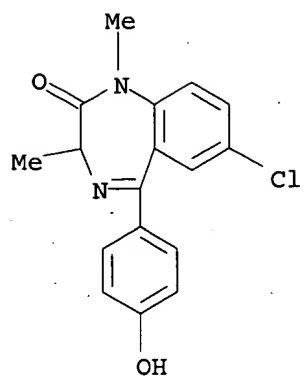
CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1-ethyl-1,3-dihydro-5-(4-hydroxyphenyl)-3-methyl-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



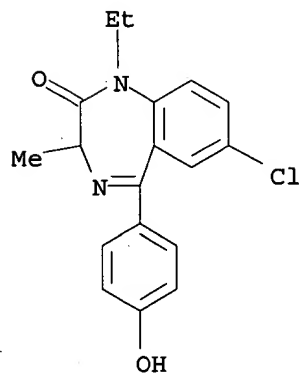
RN 155505-60-5 USPATFULL

CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1,3-dimethyl- (9CI) (CA INDEX NAME)



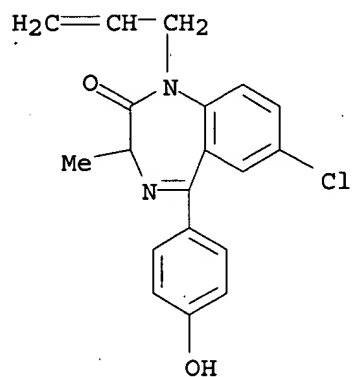
RN 155505-61-6 USPATFULL

CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1-ethyl-1,3-dihydro-5-(4-hydroxyphenyl)-3-methyl- (9CI) (CA INDEX NAME)



RN 155505-62-7 USPATFULL

CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-3-methyl-1-(2-propenyl)- (9CI) (CA INDEX NAME)



RN 155505-63-8 USPATFULL

CN 2H-1,4-Benzodiazepin-2-one, 7-

L9 ANSWER 11 OF 13 USPATFULL on STN
IT 223248-08-6P 223248-14-4P 223248-20-2P
223248-25-7P

(preparation of benzodiazepinones as protein tyrosine kinase inhibitors)

ACCESSION NUMBER: 2000:102287 USPATFULL
TITLE: Inhibitors of protein tyrosine kinases
INVENTOR(S): Budde, Raymond J. A., Bellaire, TX, United States
Ellman, Jonathan A., Oakland, CA, United States
Levin, Victor A., Houston, TX, United States
Gallick, Gary E., Kingwood, TX, United States
Newman, Robert A., Sugar Land, TX, United States
PATENT ASSIGNEE(S): Board of Regents, The University of Texas System,
Austin, TX, United States (U.S. corporation)
The Regents of the University of California, Oakland,
CA, United States (U.S. corporation)

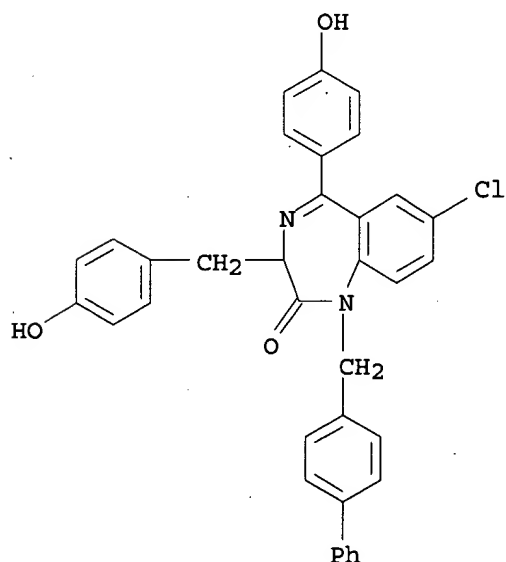
	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6100254		20000808
APPLICATION INFO.:	US 1997-948839		19971010 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Raymond, Richard L.		
ASSISTANT EXAMINER:	Coleman, Brenda		
LEGAL REPRESENTATIVE:	Fulbright & Jaworski		
NUMBER OF CLAIMS:	31		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	7 Drawing Figure(s); 7 Drawing Page(s)		
LINE COUNT:	3032		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 223248-08-6P 223248-14-4P 223248-20-2P
223248-25-7P

(preparation of benzodiazepinones as protein tyrosine kinase inhibitors)

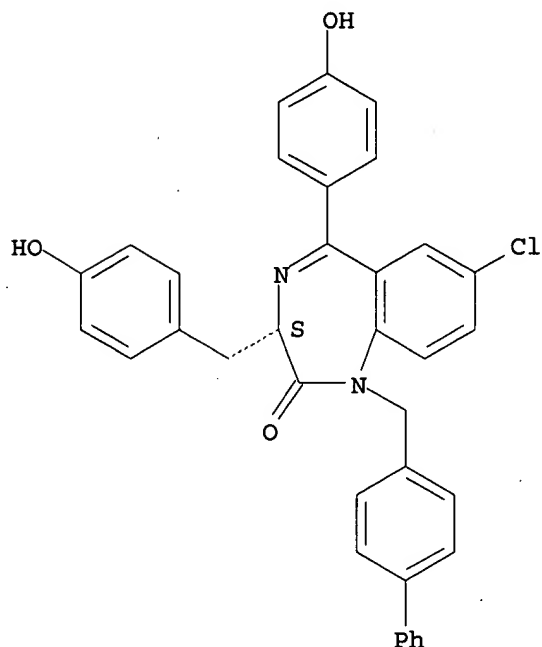
RN 223248-08-6 USPATFULL
CN 2H-1,4-Benzodiazepin-2-one, 1-([1,1'-biphenyl]-4-ylmethyl)-7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-3-[(4-hydroxyphenyl)methyl]- (9CI) (CA INDEX NAME)



RN 223248-14-4 USPATFULL
CN 2H-1,4-Benzodiazepin-2-one, 1-([1,1'-biphenyl]-4-ylmethyl)-7-chloro-1,3-

dihydro-5-(4-hydroxyphenyl)-3-[(4-hydroxyphenyl)methyl]-, (3S) - (9CI)
(CA INDEX NAME)

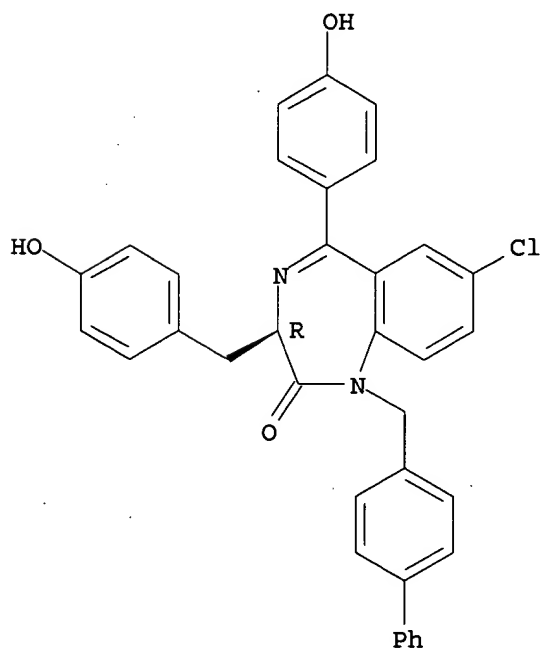
Absolute stereochemistry.



RN 223248-20-2 USPATFULL

CN 2H-1,4-Benzodiazepin-2-one, 1-([1,1'-biphenyl]-4-ylmethyl)-7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-3-[(4-hydroxyphenyl)methyl]-, (3R) - (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

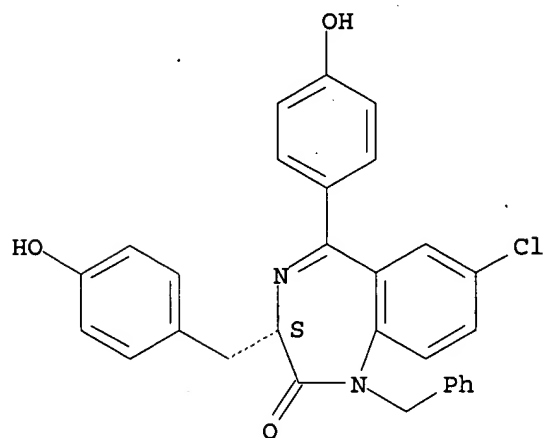


RN 223248-25-7 USPATFULL

CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-3-[(4-

hydroxyphenyl)methyl]-1-(phenylmethyl)-, (3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L9 ANSWER 12 OF 13 USPATFULL on STN

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L12 STRUCTURE UPLOADED

=> d l12
L12 HAS NO ANSWERS
L12 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

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FULL SEARCH INITIATED 00:39:36
FULL SCREEN SEARCH COMPLETED - 7611 TO ITERATE

100.0% PROCESSED 7611 ITERATIONS 24 ANSWERS
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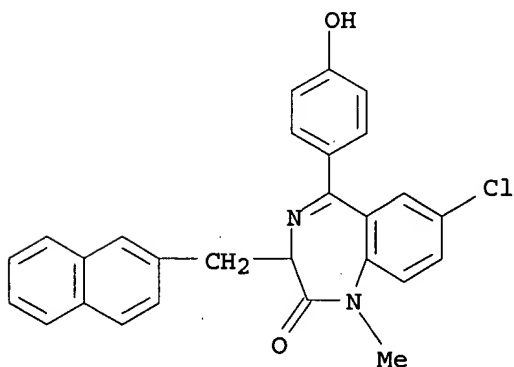
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=> d 1-24

L13 ANSWER 1 OF 24 REGISTRY COPYRIGHT 2006 ACS on STN
RN 887925-78-2 REGISTRY
ED Entered STN: 15 Jun 2006
CN Butanedioic acid, compd. with 7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1-methyl-3-(2-naphthalenylmethyl)-2H-1,4-benzodiazepin-2-one (1:2) (9CI)
 (CA INDEX NAME)
MF C27 H21 Cl N2 O2 . 1/2 C4 H6 O4
SR CA
LC STN Files: CA, CAPLUS

CM 1

CRN 216691-95-1
CMF C27 H21 Cl N2 O2



CM 2

CRN 110-15-6
CMF C4 H6 O4

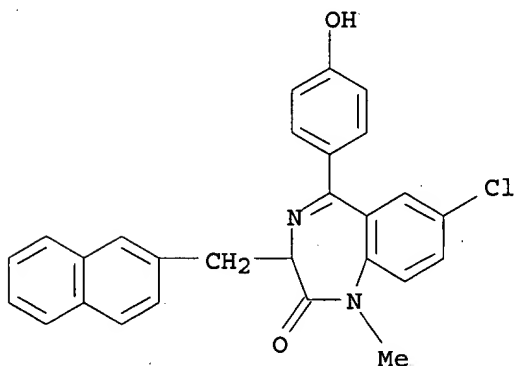
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1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L13 ANSWER 2 OF 24 REGISTRY COPYRIGHT 2006 ACS on STN
RN 887925-77-1 REGISTRY
ED Entered STN: 15 Jun 2006
CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1-methyl-3-(2-naphthalenylmethyl)-, compd. with 2-propanol (1:1) (9CI) (CA INDEX NAME)
MF C27 H21 Cl N2 O2 . C3 H8 O
SR CA
LC STN Files: CA, CAPLUS

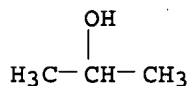
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CRN 216691-95-1
CMF C27 H21 Cl N2 O2



CM 2

CRN 67-63-0
CMF C3 H8 O

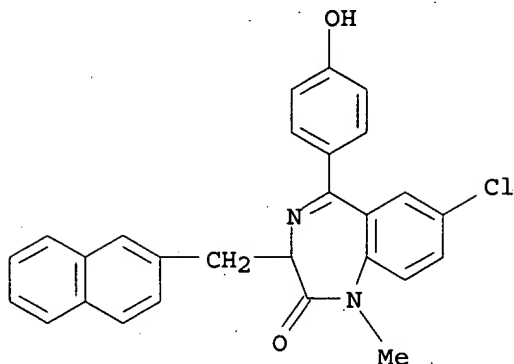


1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L13 ANSWER 3 OF 24 REGISTRY COPYRIGHT 2006 ACS on STN
RN 887925-76-0 REGISTRY
ED Entered STN: 15 Jun 2006
CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1-methyl-3-(2-naphthalenylmethyl)-, (2E)-2-butenedioate (2:1) (salt) (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C27 H21 Cl N2 O2 . 1/2 C4 H4 O4
SR CA
LC STN Files: CA, CAPLUS

CM 1

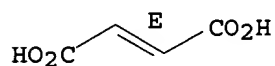
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CMF C27 H21 Cl N2 O2



CM 2

CRN 110-17-8
CMF C4 H4 O4

Double bond geometry as shown.

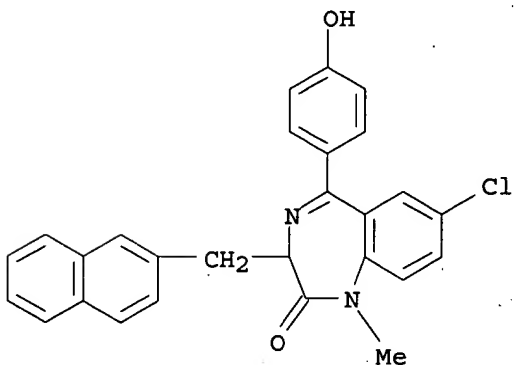


1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L13 ANSWER 4 OF 24 REGISTRY COPYRIGHT 2006 ACS on STN
RN 887925-75-9 REGISTRY
ED Entered STN: 15 Jun 2006
CN Acetic acid ethyl ester, compd. with 7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1-methyl-3-(2-naphthalenylmethyl)-2H-1,4-benzodiazepin-2-one (1:2) (9CI) (CA INDEX NAME)
MF C27 H21 Cl N2 O2 . 1/2 C4 H8 O2
SR CA
LC STN Files: CA, CAPLUS

CM 1

CRN 216691-95-1
CMF C27 H21 Cl N2 O2



CM 2

CRN 141-78-6

CMF C4 H8 O2

Et-O-Ac

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L13 ANSWER 5 OF 24 REGISTRY COPYRIGHT 2006 ACS on STN

RN 887925-74-8 REGISTRY

ED Entered STN: 15 Jun 2006

CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1-methyl-3-(2-naphthalenylmethyl)-, compd. with ethanol (1:1) (9CI) (CA INDEX NAME)

MF C27 H21 Cl N2 O2 . C2 H6 O

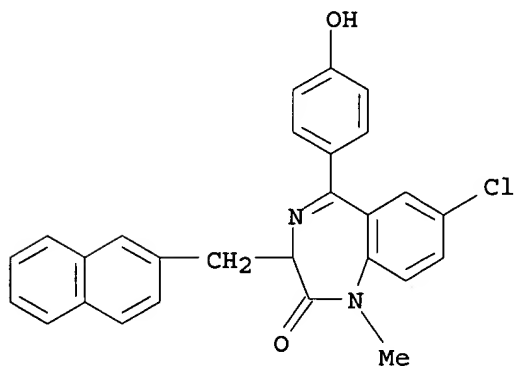
SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 216691-95-1

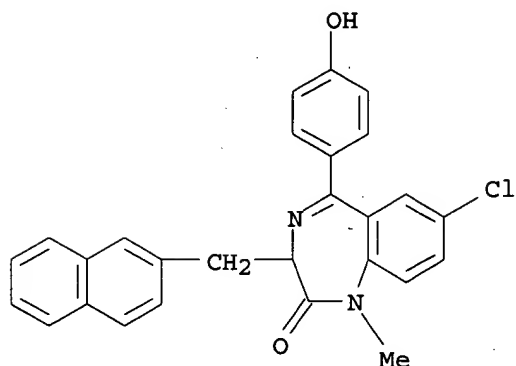
CMF C27 H21 Cl N2 O2



SR CA
LC STN Files: CA, CAPLUS

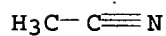
CM 1

CRN 216691-95-1
CMF C27 H21 Cl N2 O2



CM 2

CRN 75-05-8
CMF C2 H3 N

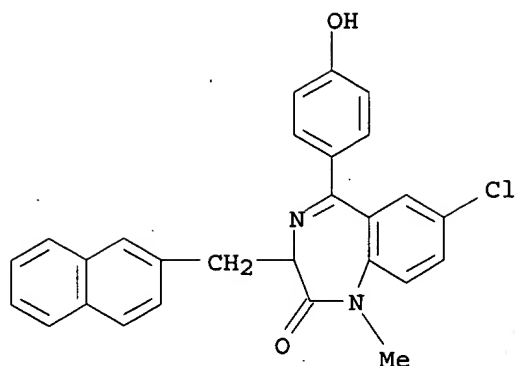


1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L13 ANSWER 7 OF 24 REGISTRY COPYRIGHT 2006 ACS on STN
RN 887925-72-6 REGISTRY
ED Entered STN: 15 Jun 2006
CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1-methyl-3-(2-naphthalenylmethyl)-, monoacetate (salt) (9CI) (CA INDEX NAME)
MF C27 H21 Cl N2 O2 . C2 H4 O2
SR CA
LC STN Files: CA, CAPLUS

CM 1

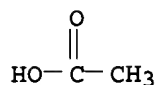
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CM 2

CRN 64-19-7

CMF C2 H4 O2



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L13 ANSWER 8 OF 24 REGISTRY COPYRIGHT 2006 ACS on STN

RN 869718-62-7 REGISTRY

ED Entered STN: 12 Dec 2005

CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[5-[7-chloro-2,3-dihydro-5-(4-hydroxyphenyl)-3-(2-naphthalenylmethyl)-2-oxo-1H-1,4-benzodiazepin-1-yl]pentyl]hexahydro-2-oxo-, (3aS,4S,6aR) - (9CI) (CA INDEX NAME)

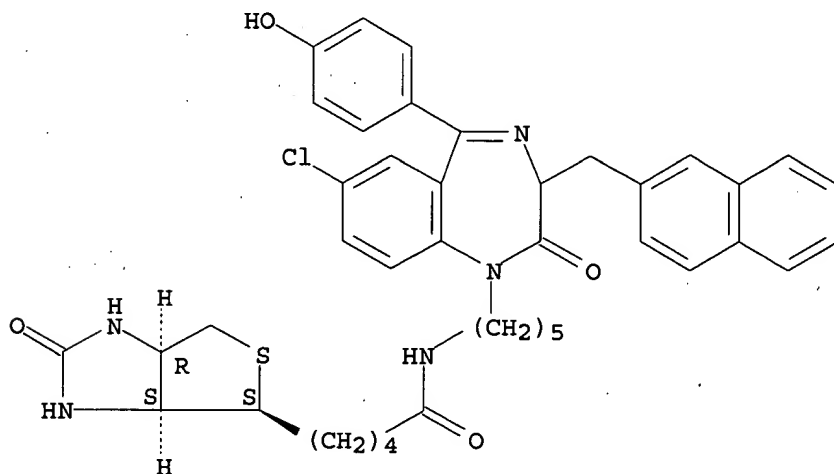
FS STEREOSEARCH

MF C41 H44 Cl N5 O4 S

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

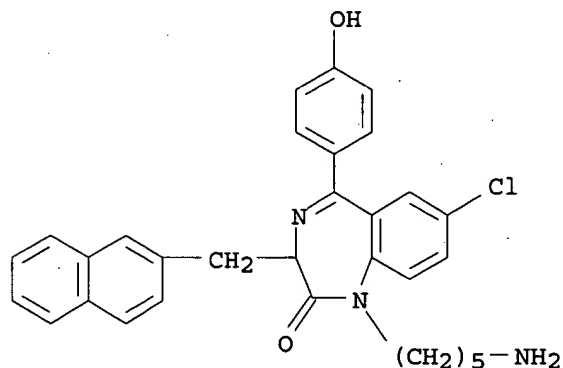
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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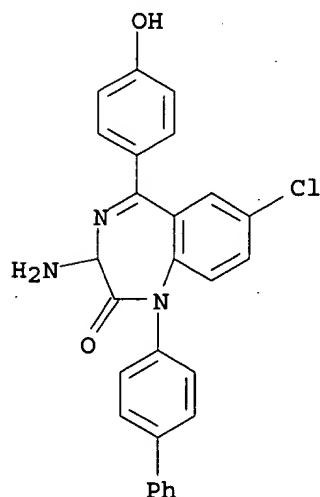
L13 ANSWER 9 OF 24 REGISTRY COPYRIGHT 2006 ACS on STN
RN 869718-61-6 REGISTRY
ED Entered STN: 12 Dec 2005
CN 2H-1,4-Benzodiazepin-2-one, 1-(5-aminopentyl)-7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-3-(2-naphthalenylmethyl)- (9CI) (CA INDEX NAME)
MF C31 H30 Cl N3 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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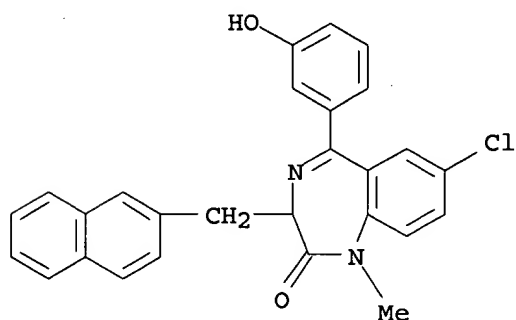
L13 ANSWER 10 OF 24 REGISTRY COPYRIGHT 2006 ACS on STN
RN 852240-60-9 REGISTRY
ED Entered STN: 14 Jun 2005
CN 2H-1,4-Benzodiazepin-2-one, 3-amino-1-[1,1'-biphenyl]-4-yl-7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)- (9CI) (CA INDEX NAME)
MF C27 H20 Cl N3 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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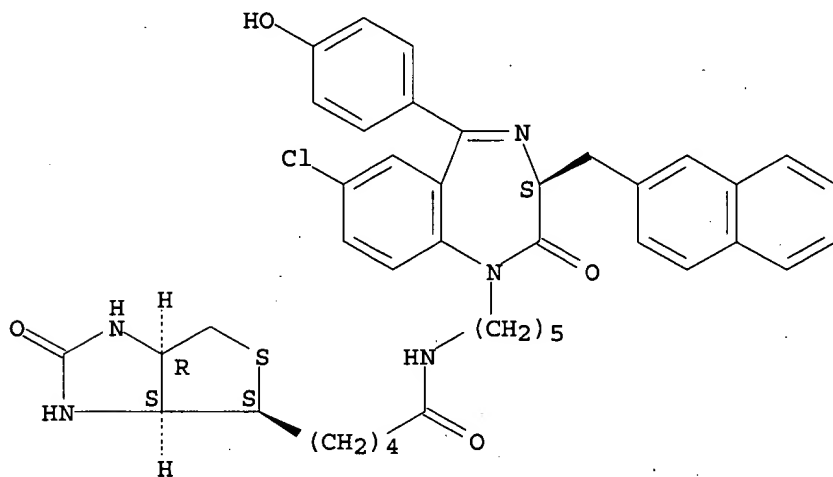
L13 ANSWER 11 OF 24 REGISTRY COPYRIGHT 2006 ACS on STN
RN 610310-74-2 REGISTRY
ED Entered STN: 29 Oct 2003
CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-5-(3-hydroxyphenyl)-1-methyl-3-(2-naphthalenylmethyl)- (9CI) (CA INDEX NAME)
MF C27 H21 Cl N2 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL



3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L13 ANSWER 13 OF 24 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 498557-86-1 REGISTRY
 ED Entered STN: 13 Mar 2003
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[5-[(3S)-7-chloro-2,3-dihydro-5-(4-hydroxyphenyl)-3-(2-naphthalenylmethyl)-2-oxo-1H-1,4-benzodiazepin-1-yl]pentyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C41 H44 Cl N5 O4 S
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER

Absolute stereochemistry.

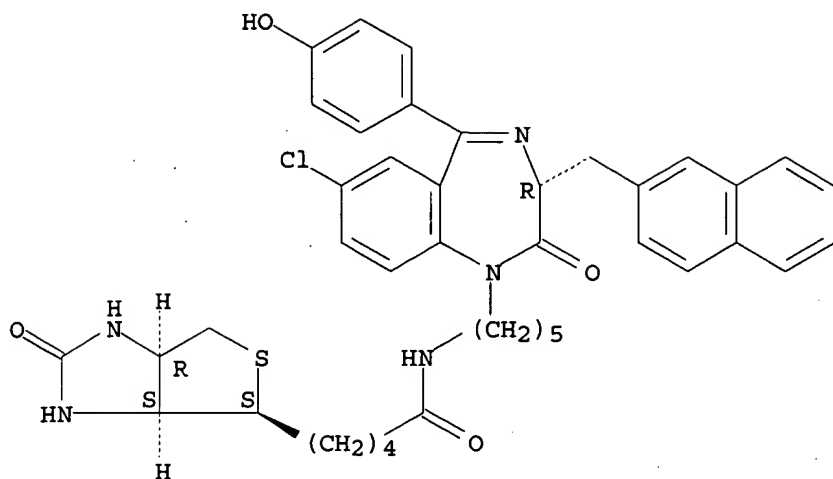


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L13 ANSWER 14 OF 24 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 498557-85-0 REGISTRY
 ED Entered STN: 13 Mar 2003
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[5-[(3R)-7-chloro-2,3-dihydro-5-(4-hydroxyphenyl)-3-(2-naphthalenylmethyl)-2-oxo-1H-1,4-benzodiazepin-1-yl]pentyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C41 H44 Cl N5 O4 S
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER

Absolute stereochemistry.

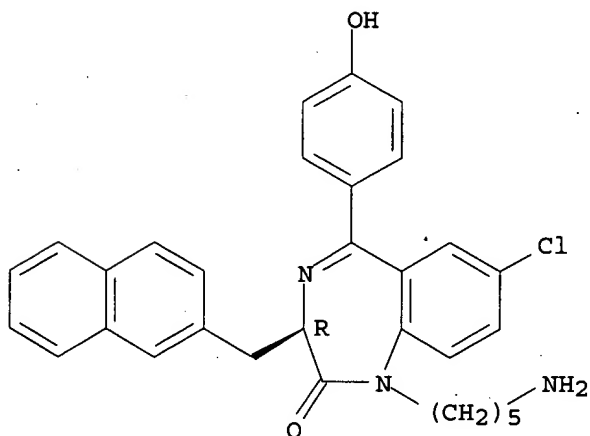


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L13 ANSWER 15 OF 24 REGISTRY COPYRIGHT 2006 ACS on STN
RN 498557-84-9 REGISTRY
ED Entered STN: 13 Mar 2003
CN 2H-1,4-Benzodiazepin-2-one, 1-(5-aminopentyl)-7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-3-(2-naphthalenylmethyl)-, (3R)-(9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C31 H30 Cl N3 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Absolute stereochemistry.



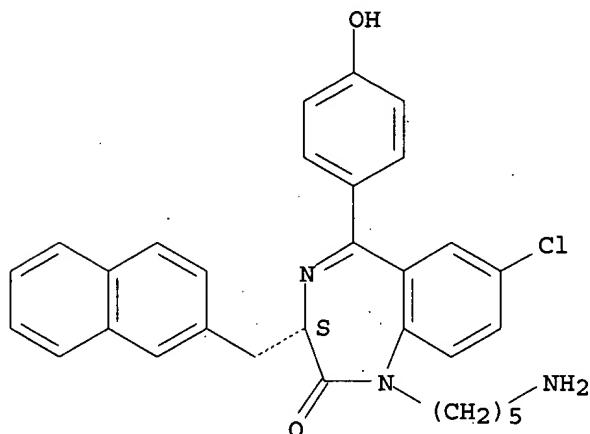
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1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L13 ANSWER 16 OF 24 REGISTRY COPYRIGHT 2006 ACS on STN
RN 498557-83-8 REGISTRY
ED Entered STN: 13 Mar 2003

CN 2H-1,4-Benzodiazepin-2-one, 1-(5-aminopentyl)-7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-3-(2-naphthalenylmethyl)-, (3S)- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C31 H30 Cl N3 O2
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER

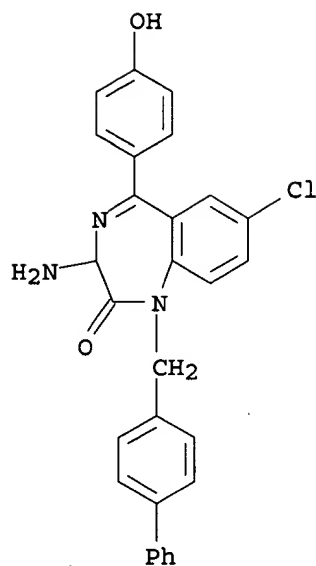
Absolute stereochemistry.



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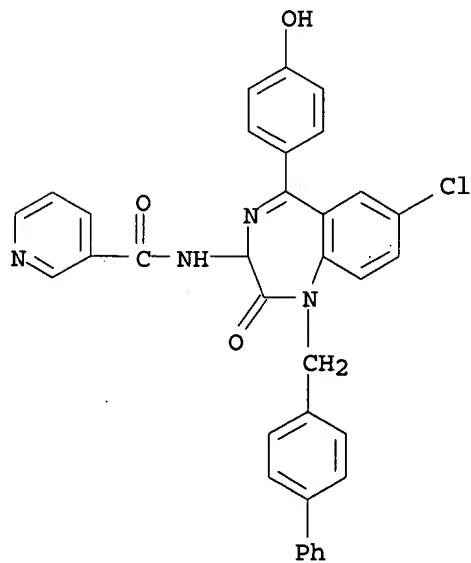
L13 ANSWER 17 OF 24 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 304681-27-4 REGISTRY
 ED Entered STN: 28 Nov 2000
 CN 2H-1,4-Benzodiazepin-2-one, 3-amino-1-([1,1'-biphenyl]-4-ylmethyl)-7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)- (9CI) (CA INDEX NAME)
 MF C28 H22 Cl N3 O2
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

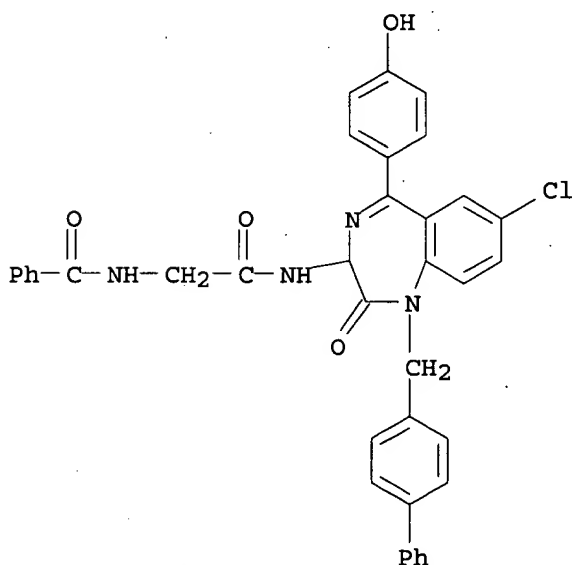
L13 ANSWER 18 OF 24 REGISTRY COPYRIGHT 2006 ACS on STN
RN 304681-26-3 REGISTRY
ED Entered STN: 28 Nov 2000
CN 3-Pyridinecarboxamide, N-[1-([1,1'-biphenyl]-4-ylmethyl)-7-chloro-2,3-dihydro-5-(4-hydroxyphenyl)-2-oxo-1H-1,4-benzodiazepin-3-yl]- (9CI) (CA INDEX NAME)
MF C34 H25 Cl N4 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER



****PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT****

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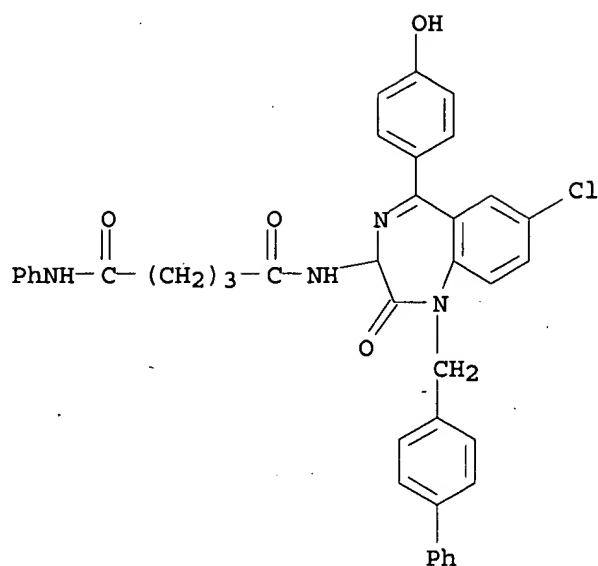
L13 ANSWER 19 OF 24 REGISTRY COPYRIGHT 2006 ACS on STN
RN 304681-25-2 REGISTRY
ED Entered STN: 28 Nov 2000
CN Benzamide, N-[2-[[1-([1,1'-biphenyl]-4-ylmethyl)-7-chloro-2,3-dihydro-5-(4-hydroxyphenyl)-2-oxo-1H-1,4-benzodiazepin-3-yl]amino]-2-oxoethyl]- (9CI)
(CA INDEX NAME)
MF C37 H29 Cl N4 O4
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER



****PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT****

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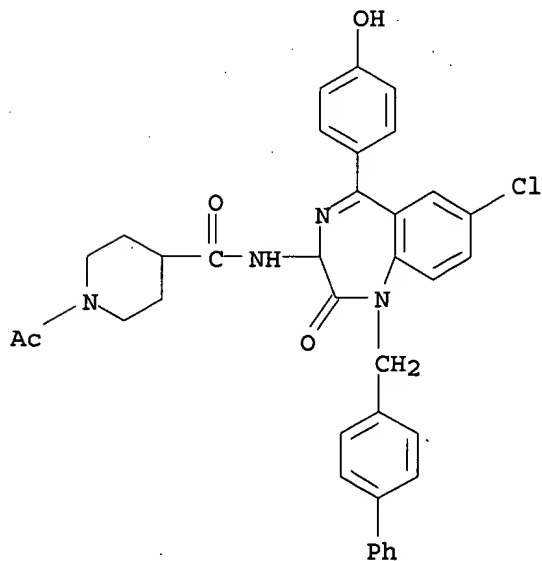
L13 ANSWER 20 OF 24 REGISTRY COPYRIGHT 2006 ACS on STN
RN 304681-24-1 REGISTRY
ED Entered STN: 28 Nov 2000
CN Pentanediamide, N-[1-([1,1'-biphenyl]-4-ylmethyl)-7-chloro-2,3-dihydro-5-(4-hydroxyphenyl)-2-oxo-1H-1,4-benzodiazepin-3-yl]-N'-phenyl- (9CI) (CA INDEX NAME)
MF C39 H33 Cl N4 O4
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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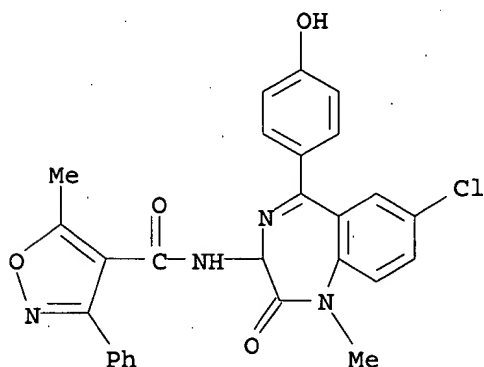
L13 ANSWER 21 OF 24 REGISTRY COPYRIGHT 2006 ACS on STN
RN 304681-23-0 REGISTRY
ED Entered STN: 28 Nov 2000
CN 4-Piperidinecarboxamide, 1-acetyl-N-[1-([1,1'-biphenyl]-4-ylmethyl)-7-chloro-2,3-dihydro-5-(4-hydroxyphenyl)-2-oxo-1H-1,4-benzodiazepin-3-yl]-(9CI) (CA INDEX NAME)
MF C36 H33 Cl N4 O4
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER



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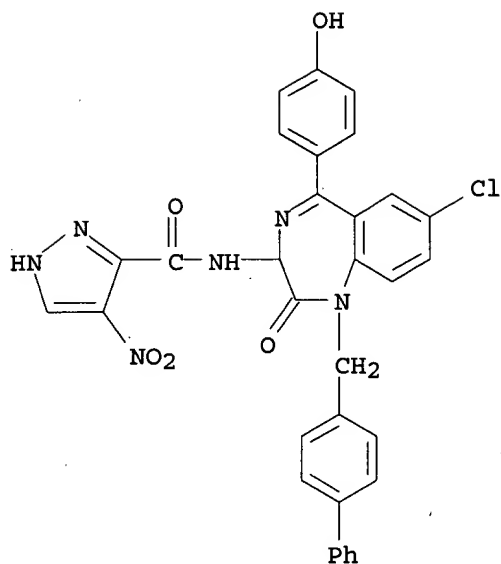
L13 ANSWER 22 OF 24 REGISTRY COPYRIGHT 2006 ACS on STN
RN 304681-22-9 REGISTRY
ED Entered STN: 28 Nov 2000
CN 4-Isioxazolecarboxamide, N-[7-chloro-2,3-dihydro-5-(4-hydroxyphenyl)-1-methyl-2-oxo-1H-1,4-benzodiazepin-3-yl]-5-methyl-3-phenyl- (9CI) (CA INDEX NAME)
MF C27 H21 Cl N4 O4
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER



****PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT****

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L13 ANSWER 23 OF 24 REGISTRY COPYRIGHT 2006 ACS on STN
RN 304681-21-8 REGISTRY
ED Entered STN: 28 Nov 2000
CN 1H-Pyrazole-3-carboxamide, N-[1-([1,1'-biphenyl]-4-ylmethyl)-7-chloro-2,3-dihydro-5-(4-hydroxyphenyl)-2-oxo-1H-1,4-benzodiazepin-3-yl]-4-nitro- (9CI) (CA INDEX NAME)
MF C32 H23 Cl N6 O5
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER



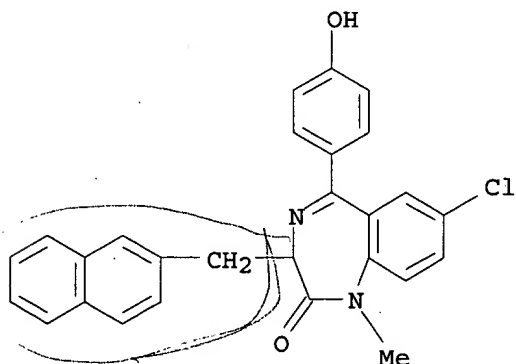
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2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L13 ANSWER 24 OF 24 REGISTRY COPYRIGHT 2006 ACS on STN
RN 216691-95-1 REGISTRY
ED Entered STN: 07 Jan 1999
CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1-methyl-3-(2-naphthalenylmethyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Bz 423
CN BZ 48
DR 498576-83-3
MF C27 H21 Cl N2 O2
CI COM
SR CA
LC STN Files: CA, CAPLUS, PROUSDDR, SYNTHLINE, TOXCENTER, USPATFULL



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COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE
ENTRY
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TOTAL
SESSION
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FILE 'CAPLUS' ENTERED AT 00:40:40 ON 16 DEC 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPATFULL' ENTERED AT 00:40:40 ON 16 DEC 2006
CA INDEXING COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'TOXCENTER' ENTERED AT 00:40:40 ON 16 DEC 2006
COPYRIGHT (C) 2006 ACS

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L14 23 FILE CAPLUS
L15 10 FILE USPATFULL
L16 18 FILE TOXCENTER

TOTAL FOR ALL FILES
L17 51 L13

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L17 ANSWER 23 OF 51 CAPLUS COPYRIGHT 2006 ACS on STN

IT 216691-89-3P 216691-90-6P 216691-91-7P 216691-92-8P 216691-93-9P
216691-94-0P **216691-95-1P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis of 3-substituted 1,4-benzodiazepin-2-ones)

ACCESSION NUMBER: 1998:700185 CAPLUS

DOCUMENT NUMBER: 130:38362

TITLE: Synthesis of 3-substituted 1,4-benzodiazepin-2-ones

AUTHOR(S): Kim, Kyungjin; Volkman, Steven K.; Ellman, Jonathan A.

CORPORATE SOURCE: Department of Chemistry, University of California,
Berkeley, CA, 94720, USA

SOURCE: Journal of the Brazilian Chemical Society (1998),
9(4), 375-379

CODEN: JOCSET; ISSN: 0103-5053

PUBLISHER: Sociedade Brasileira de Quimica

DOCUMENT TYPE: Journal

LANGUAGE: English

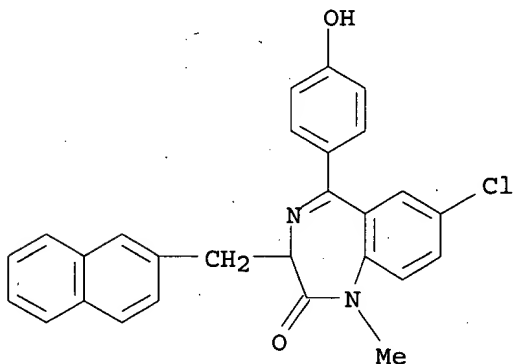
OTHER SOURCE(S): CASREACT 130:38362

IT **216691-95-1P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis of 3-substituted 1,4-benzodiazepin-2-ones)

RN 216691-95-1 CAPLUS

CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1-
methyl-3-(2-naphthalenylmethyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

21

THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

FILE 'CAPLUS, USPATFULL, TOXCENTER' ENTERED AT 00:40:40 ON 16 DEC 2006

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L15 10 FILE USPATFULL
L16 18 FILE TOXCENTER
TOTAL FOR ALL FILES
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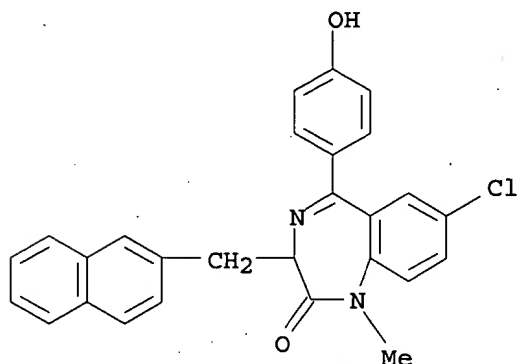
L15 ANSWER 7 OF 10 USPATFULL on STN

IT 216691-95-1, Bz-423

(benzodiazepine-related inhibitors of mitochondrial F0F1-ATPase and
their therapeutic applications and targets)

RN 216691-95-1 USPATFULL

CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1-
methyl-3-(2-naphthalenylmethyl)- (9CI) (CA INDEX NAME)



ACCESSION NUMBER:

TITLE:

INVENTOR(S):

PATENT ASSIGNEE(S):

2004:307110 USPATFULL

Compositions and methods relating to novel compounds
and targets thereof

Glick, Gary D., Ann Arbor, MI, UNITED STATES

The Regents of the University of Michigan, Ann Arbor,
MI, UNITED STATES (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004241781	A1	20041202
APPLICATION INFO.:	US 2004-795535	A1	20040308 (10)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2003-634114, filed on 4 Aug 2003, PENDING Continuation-in-part of Ser. No. US 2003-427211, filed on 1 May 2003, PENDING Continuation-in-part of Ser. No. US 2002-217878, filed on 13 Aug 2002, PENDING Continuation of Ser. No. US 2001-767283, filed on 22 Jan 2001, PENDING Continuation of Ser. No. US 2000-700101, filed on 8 Nov 2000, PENDING A 371 of International Ser. No. WO 2000-US11599, filed on 27 Apr 2000, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-131761P	19990430 (60)
	US 1999-165511P	19991115 (60)
	US 2000-191855P	20000324 (60)

US 2001-312560P 20010815 (60)
US 2001-313689P 20010820 (60)
US 2002-396670P 20020718 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: David A. Casimir, MEDLEN & CARROLL, LLP, Suite 350, 101
Howard Street, San Francisco, CA, 94105
NUMBER OF CLAIMS: 9
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 596 Drawing Page(s)
LINE COUNT: 3543
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

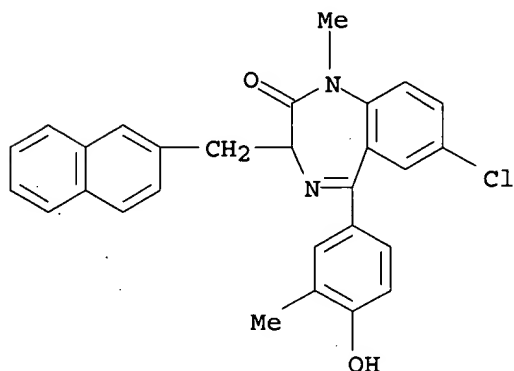
L15 ANSWER 8 OF 10 USPATFULL on STN

IT 610310-73-1 610310-74-2

(1,4-Benzodiazepine-2-one derivs. and method for regulating apoptosis
and cellular proliferation)

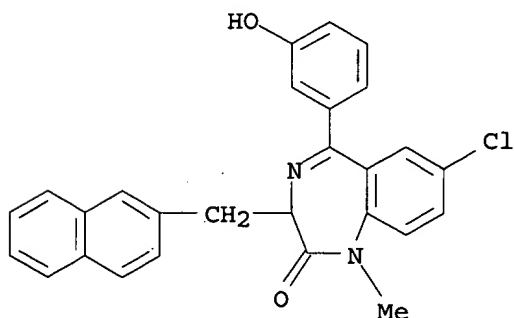
RN 610310-73-1 USPATFULL

CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-5-(4-hydroxy-3-
methylphenyl)-1-methyl-3-(2-naphthalenylmethyl)- (9CI) (CA INDEX NAME)



RN 610310-74-2 USPATFULL

CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-5-(3-hydroxyphenyl)-1-
methyl-3-(2-naphthalenylmethyl)- (9CI) (CA INDEX NAME)



ACCESSION NUMBER:

TITLE:

INVENTOR(S):

PATENT ASSIGNEE(S):

2004:280879 USPATFULL

Compositions relating to novel compounds and targets
thereof

Glick, Gary D., Ann Arbor, MI, UNITED STATES

The Regents of the University of Michigan, Ann Arbor,
MI (U.S. corporation)

NUMBER KIND DATE

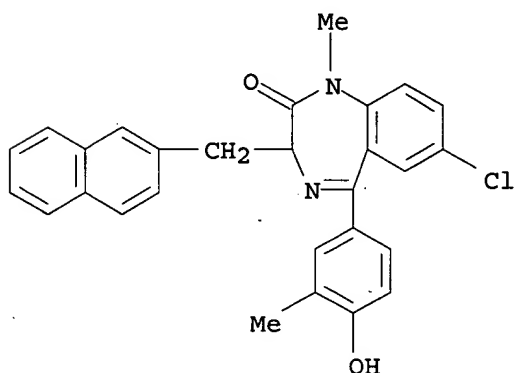
PATENT INFORMATION: US 2004220180 A1 20041104
 US 7144880 B2 20061205
 APPLICATION INFO.: US 2003-427212 A1 20030501 (10)
 DOCUMENT TYPE: Utility
 FILE SEGMENT: APPLICATION
 LEGAL REPRESENTATIVE: MEDLEN & CARROLL, LLP, Suite 350, 101 Howard Street,
 San Francisco, CA, 94105
 NUMBER OF CLAIMS: 6
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 596 Drawing Page(s)
 LINE COUNT: 2960
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 9 OF 10 USPATFULL on STN
 IT 610310-73-1

(benzodiazepine compds. and therapeutic use)

RN 610310-73-1 USPATFULL

CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-5-(4-hydroxy-3-methylphenyl)-1-methyl-3-(2-naphthalenylmethyl)- (9CI) (CA INDEX NAME)



ACCESSION NUMBER: 2004:227972 USPATFULL
 TITLE: Compositions and methods relating to novel compounds and targets thereof
 INVENTOR(S): Glick, Gary D., Ann Arbor, MI, UNITED STATES
 PATENT ASSIGNEE(S): The Regents of the University of Michigan, Ann Arbor, MI (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004176358	A1	20040909
APPLICATION INFO.:	US 2003-634114	A1	20030804 (10)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2003-427211, filed on 1 May 2003, PENDING Continuation-in-part of Ser. No. US 2002-217878, filed on 13 Aug 2002, PENDING Continuation of Ser. No. US 2001-767283, filed on 22 Jan 2001, PENDING Continuation of Ser. No. US 2000-700101, filed on 8 Nov 2000, PENDING A 371 of International Ser. No. WO 2000-US11599, filed on 27 Apr 2000, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-131761P	19990430 (60)
	US 1999-165511P	19991115 (60)
	US 2000-191855P	20000324 (60)
	US 2001-312560P	20010815 (60)
	US 2001-313689P	20010820 (60)
	US 2002-396670P	20020718 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: David A. Casimir, MEDLEN & CARROLL, LLP, Suite 350, 101 Howard Street, San Francisco, CA, 94105
NUMBER OF CLAIMS: 5
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 596 Drawing Page(s)
LINE COUNT: 3404
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

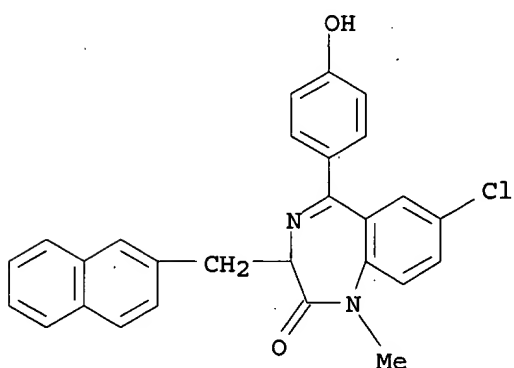
L15 ANSWER 10 OF 10 USPATFULL on STN

IT 216691-95-1

(novel benzodiazepine compds. to regulate programmed cell death and target cells to treat diseases in relation to drug screening)

RN 216691-95-1 USPATFULL

CN 2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-5-(4-hydroxyphenyl)-1-methyl-3-(2-naphthalenylmethyl)- (9CI) (CA INDEX NAME)



ACCESSION NUMBER: 2003:173185 USPATFULL
TITLE: Compositions and methods relating to novel benzodiazepine compounds and targets thereof
INVENTOR(S): Glick, Gary D., Ann Arbor, MI, UNITED STATES
Opipari, Anthony W., Ann Arbor, MI, UNITED STATES
PATENT ASSIGNEE(S): Regents of the University of Michigan, Ann Arbor, MI (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003119029	A1	20030626
APPLICATION INFO.:	US 2002-217878	A1	20020813 (10)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2001-767283, filed on 22 Jan 2001, PENDING Continuation of Ser. No. US 2000-700101, filed on 8 Nov 2000, PENDING A 371 of International Ser. No. WO 2000-US11599, filed on 27 Apr 2000, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-131761P	19990430 (60)
	US 1999-165511P	19991115 (60)
	US 2000-191855P	20000324 (60)
	US 2001-312560P	20010815 (60)
	US 2001-313689P	20010820 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: MEDLEN & CARROLL, LLP, 101 Howard Street, Suite 350, San Francisco, CA, 94105
NUMBER OF CLAIMS: 53

EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 14 Drawing Page(s)
LINE COUNT: 3901
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 116 15-18 kwic, ibib

L16 ANSWER 15 OF 18 TOXCENTER COPYRIGHT 2006 ACS on STN

RN 17311-35-2; 216691-88-2; **216691-95-1**; 610310-60-6; 610310-61-7;
610310-62-8; 610310-63-9; 610310-64-0; 610310-65-1; 610310-66-2;
610310-67-3; 610310-68-4; 610310-69-5; 610310-70-8; 610310-71-9;
610310-72-0; **610310-73-1**; **610310-74-2**; 610310-75-3;
610310-76-4

ACCESSION NUMBER: 2003:222109 TOXCENTER

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DOCUMENT NUMBER: CA13920307742W

TITLE: Structure activity studies of a novel cytotoxic benzodiazepine

AUTHOR(S): Boitano, Anthony; Emal, Cory D.; Leonetti, Francesco;
Blatt, Neal B.; Dineen, Thomas A.; Ellman, Jonathan A.;
Roush, William R.; Opipari, Anthony W.; Glick, Gary D.

CORPORATE SOURCE: Department of Chemistry, University of Michigan, Ann Arbor, MI, 48109-1055, USA.

SOURCE: Bioorganic & Medicinal Chemistry Letters, (2003) Vol. 13, No. 19, pp. 3327-3330.

CODEN: BMCLE8. ISSN: 0960-894X.

COUNTRY: UNITED STATES

DOCUMENT TYPE: Journal

FILE SEGMENT: CAPLUS

OTHER SOURCE: CAPLUS 2003:689667

LANGUAGE: English

ENTRY DATE: Entered STN: 9 Sep 2003

Last Updated on STN: 11 Nov 2003

L16 ANSWER 16 OF 18 TOXCENTER COPYRIGHT 2006 ACS on STN

RN 37205-63-3 (ATP synthase)
56-65-5 (5'-ATP)
7782-44-7Q (Oxygen, reactive species)
11062-77-4 (Superoxide)
12794-10-4Q (Benzodiazepine, derivs.)

RN **216691-95-1**

ACCESSION NUMBER: 2003:171703 TOXCENTER

COPYRIGHT: Copyright 2006 ACS

DOCUMENT NUMBER: CA13904047211Y

TITLE: Compositions and methods relating to novel benzodiazepine compounds and targets thereof

AUTHOR(S): Glick, Gary D.; Opipari, Anthony W.

CORPORATE SOURCE: ASSIGNEE: Regents of the University of Michigan

PATENT INFORMATION: US 2003119029 A1 26 Jun 2003

SOURCE: (2003) U.S. Pat. Appl. Publ., 54 pp., Cont.-in-part of U.S. Ser. No. 767,283.

CODEN: USXXCO.

COUNTRY: UNITED STATES

DOCUMENT TYPE: Patent

FILE SEGMENT: CAPLUS

OTHER SOURCE: CAPLUS 2003:492543

LANGUAGE: English

ENTRY DATE: Entered STN: 15 Jul 2003

Last Updated on STN: 31 Oct 2006

L16 ANSWER 17 OF 18 TOXCENTER COPYRIGHT 2006 ACS on STN

RN . . . (Allopurinol)
1397-94-0 (Antimycin A)
12794-10-4Q (Benzodiazepine, derivs.)
26628-22-8 (Sodium azide (Na(N3)))
51481-61-9 (Cimetidine)
53123-88-9 (Rapamycin)
59865-13-3 (Cyclosporin A)
104987-11-3 (FK506)

216691-95-1 (BZ 48)

37205-63-3Q (ATP synthase, complexes)

RN 187459-22-9; 216691-95-1; 304681-21-8;
304681-22-9; 304681-23-0; 304681-24-1;
304681-25-2; 304681-26-3; 304681-27-4;
17311-35-2; 498557-55-4; 498557-56-5; 498557-57-6; 498557-58-7;
498557-59-8; 498557-60-1; 498557-61-2; 498557-62-3; 498557-63-4;
498557-64-5; 498557-65-6; 498557-66-7; 498557-67-8; 498557-68-9;
498557-69-0; 498557-70-3; 498557-71-4; 498557-72-5; 498557-73-6;
498557-74-7; 498557-75-8; 498557-76-9; 498557-77-0; 498557-78-1;
498557-79-2; 498557-80-5; 498557-81-6; 498557-82-7; 498557-83-8;
498557-84-9; 498557-85-0; 498557-86-1;
498557-87-2

ACCESSION NUMBER: 2003:62947 TOXCENTER
COPYRIGHT: Copyright 2006 ACS
DOCUMENT NUMBER: CA13813180767E
TITLE: Compositions and methods relating to novel benzodiazepine
compounds and targets thereof
AUTHOR(S): Glick, Gary D.; Opipari, Anthony W.
CORPORATE SOURCE: ASSIGNEE: The Regents of the University of Michigan
PATENT INFORMATION: WO 2003015703 A2 27 Feb 2003
SOURCE: (2003) PCT Int. Appl., 123 pp.
CODEN: PIXXD2.
COUNTRY: UNITED STATES
DOCUMENT TYPE: Patent
FILE SEGMENT: CAPLUS
OTHER SOURCE: CAPLUS 2003:154190
LANGUAGE: English
ENTRY DATE: Entered STN: 18 Mar 2003.
Last Updated on STN: 22 Aug 2006

L16 ANSWER 18 OF 18 TOXCENTER COPYRIGHT 2006 ACS on STN

RN 12794-10-4Q (Benzodiazepine, derivs.)
RN 187459-22-9; 216691-95-1; 304681-21-8;
304681-22-9; 304681-23-0; 304681-24-1;
304681-25-2; 304681-26-3; 304681-27-4

ACCESSION NUMBER: 2000:211357 TOXCENTER
COPYRIGHT: Copyright 2006 ACS
DOCUMENT NUMBER: CA13324329629T
TITLE: Therapeutic applications of pro-apoptotic benzodiazepines
AUTHOR(S): Glick, Gary D.; Opipari, Anthony W., Jr.
CORPORATE SOURCE: ASSIGNEE: Opipari, Anthony W., Jr.
PATENT INFORMATION: WO 2000066106 A2 9 Nov 2000
SOURCE: (2000) PCT Int. Appl., 112 pp.
CODEN: PIXXD2.
COUNTRY: UNITED STATES
DOCUMENT TYPE: Patent
FILE SEGMENT: CAPLUS
OTHER SOURCE: CAPLUS 2000:790295
LANGUAGE: English
ENTRY DATE: Entered STN: 16 Nov 2001
Last Updated on STN: 26 Mar 2002

=> d all,

L18 ANSWER 1 OF 1 SYNTHLINE COPYRIGHT 2006 PROUS SCIENCE on STN
AN 2004:7 SYNTHLINE
DN 327066
CN Bz-423
CN 7-Chloro-5-(4-hydroxyphenyl)-1-methyl-3-(2-naphthylmethyl)-2,3-dihydro-1H-
1,4-benzodiazepin-2-one
RN 216691-95-1
MF C27 H21 Cl N2 O2
MW 440.93
CC Antipsoriatics; Dermatologic Drugs; Oncolytic Drugs; Systemic Lupus
Erythematosus, Agents for; Treatment of Musculoskeletal & Connective
Tissue Diseases; Treatment of Other Autoimmune Disorders; Apoptosis
Inducers; Mitochondrial F1F0 ATPase Hydrolase Inhibitors
HDP Preclinical
STA Actively Investigated
CO University of California, Berkeley; University of Michigan
ED Entered STN: 15 Jan 2004
Last Updated on STN: 15 Nov 2006

STRUCTURE:

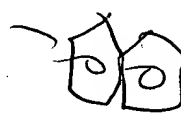
/ BINARY DATA / IMAGE001.TIF

RX 32706601a
TX Acylation of the 2-aminobenzophenone (I) with bromoacetyl bromide (II)
provides the bromoacetamide (III). Subsequent treatment of (III) with
ammonia leads to the benzodiazepinone (IV). Methylation of the lactam N
with iodomethane in the presence of K₂CO₃ gives rise to (V). The potassium
enolate of benzodiazepinone (V) is then alkylated by 2-
(bromomethyl)naphthalene (VI) to furnish the naphthylmethyl derivative
(VII). Finally, methyl ether cleavage using AlBr₃ in ethanethiol provides
the target phenolic compound

/ BINARY DATA / IMAGE002.TIF

TI Synthesis of 3-substituted 1,4-benzodiazepin-2-ones
AU Kim, K.; Volkman, S.K.; Ellman, J.A.
SO J Braz Chem Soc (1998), 9(4), 375

Delete



RCT (II) 14005
CN Bromoacetyl bromide; 2-Bromoacetyl bromide
RN 598-21-0
MF C2 H2 Br2 O
MW 201.85
CO ABCR GmbH & Co.; Acros Organics; Aldrich; Alfa Aesar; American
Radiolabeled Chemicals, Inc.; Chemada Fine Chemicals; ChemService, Inc.;
Contract Chemicals Ltd.; Dottikon Exclusive Synthesis AG; Fangqiao East
Chemical Plant; Fluka; Lancaster Synthesis Inc.; Narchem Corporation;
Oakwood Products, Inc.; Ocean Chemicals Group; Pfaltz & Bauer, Inc.;
Sinobrom Limited; Spectrum Quality Products, Inc.; TCI; Wilshire Chemical
Co., Inc.; Xinchem Company; Yancheng Longsheng Solvent Plant

RCT (VI) 35612
CN 2-(bromomethyl)naphthalene
RN 939-26-4
MF C11 H9 Br
MW 221.1
CO Acros Organics; Aldrich; Fluka; Goldlink Industries Co., LTD; Lancaster
Synthesis Inc.; Narchem Corporation; Richman Chemical Inc.; Wujin Linchuan
Chemical Factory

RCT (VII) 63042

MF C28 H23 Cl N2 O2
MW 454.96

RCT (V) 63043
MF C17 H15 Cl N2 O2
MW 314.77

RCT (I) 63044
MF C14 H12 Cl N O2
MW 261.71

RCT (III) 63045
MF C16 H13 Br Cl N O3
MW 382.64

RCT (IV) 63046
MF C16 H13 Cl N2 O2
MW 300.75

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